

# TECHNICAL DATA

## G-CAST-A70L

Low Cement Castable

جرم ریختنی آلومینایی ۷۰٪ آلومینا - کم سیمان

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** High Alumina Chamotte and Bauxite and Special Additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1620 °C	2.45 - 2.55 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 450 Kg/Cm2
800 °C	----
1100 °C	Min. 400 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
69 - 71	Max. 0.8	1 - 2.5	Max. 2	Max. 1.5	----	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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IRAN CODE



6431160144040041

ID No. : D42 - 13890613



# TECHNICAL DATA

## G-CAST-A75

Conventional Castable

جرم ریختنی آلومینایی ۷۵٪ آلومینا

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** Bauxite

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1620 °C	2.45 - 2.6 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 500 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
74 - 76	Max. 0.5	4 - 6	Max. 1.7	Max. 2.2	12 - 14	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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IRAN CODE



6 4 3 1 1 6 0 1 4 4 0 4 0 0 0 9

ID No. : D20 - 13890413



# TECHNICAL DATA

## G-CAST-A80

Conventional Castable

جرم ریختنی آلومینایی ۸۰٪ آلومینا

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** Bauxite

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1650 °C	2.45 - 2.6 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 550 Kg/Cm2
800 °C	Min. 400 Kg/Cm2
1100 °C	Min. 250 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
79 - 81	Max. 0.5	3 - 4.5	Max. 1.7	Max. 2.2	10 - 13	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D21 - 13911117



# TECHNICAL DATA

## G-CAST-A80An

Low cement castable

جرم ریختنی آلومینایی آندالوزیتی ۸۰٪ آلومینا

**Type of Material** Dence Refractory Concrete

**Raw Material Basis** Andalusite

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1600 °C	2.75 - 2.8 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 550 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
79 - 81	0.3 - 0.8	1 - 2.5	0.75 - 1.72	0.93 - 2	10 - 12	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags. Dry for addition of Water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

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ID No. : D72 - 13930414



# TECHNICAL DATA

## G-CAST-A80L

Low Cement Castable

جرم ریختنی آلومینایی کم سیمان ۸۰٪ آلومینا

**Type of Material** Low Cement, Dense Refractory Concrete

**Raw Material Basis** Bauxite and Special additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1650 'C	2.5 - 2.75 gr/Cm3

Temperature	C.C.S.
110 'C	400 - 500 Kg/Cm2
800 'C	-----
1100 'C	300 - 350 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
79 - 81	Max. 0.5	1 - 2.5	Max. 1.5	Max. 3	10 - 12	-----	-----	-----	-----	-----	-----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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# TECHNICAL DATA

## G-CAST-A85

Conventional Castable

جرم ریختنی آلومینایی ۸۵٪ آلومینا

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** Bauxite

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1700 °C	2.5 - 2.6 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 536 Kg/Cm2
800 °C	-----
1100 °C	Min. 300 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
84 - 86	Max. 0.5	3 - 4.5	Max. 1.5	Max. 2.5	5 - 9	-----	-----	-----	-----	-----	-----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

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ID No. : D22 - 13911117



# TECHNICAL DATA

## G-CAST-A85An

Low cement castable

جرم ریختنی آلومینایی آندالوزیتی ۸۵٪ آلومینا

**Type of Material** Dence Refractory Concrete

**Raw Material Basis** Bauxite and Andalusite

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1650 'C	2.8 - 2.88 gr/Cm3

Temperature	C.C.S.
110 'C	Min. 600 Kg/Cm2
800 'C	-----
1100 'C	Min. 400 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
84 - 86	0.25 - 0.3	1 - 2.5	0.75 - 1.5	1 - 2	9 - 11	-----	-----	-----	-----	-----	-----

**Condition as Delivered** 25 Kg Bags. Dry for addition of Water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

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ID No. : D77 - 13931014



# TECHNICAL DATA

## G-CAST-A85Cr

Low Cement Castable

جرم ریختنی آلومینایی کم سیمان ۸۵٪ آلومینا اکسید کروم دار

**Type of Material** Low Cement, Dense Refractory Concrete

**Raw Material Basis** Bauxite and Special additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1700 'C	2.5 - 2.9 gr/Cm3

Temperature	C.C.S.
110 'C	450 - 550 Kg/Cm2
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
82 - 85	Max. 0.5	1 - 2.5	Max. 2	Max. 3	Max. 8	----	1 - 2	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D50 - 13890515





# TECHNICAL DATA

## G-CAST-A85L

Low Cement Castable

جرم ریختنی آلومینایی ۸۵٪ آلومینا - کم سیمان

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** Bauxite

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1700 °C	Appr. 2.7 gr/Cm3

Temperature	C.C.S.
110 °C	450 - 550 Kg/Cm2
800 °C	450 - 500 Kg/Cm2
1100 °C	600 - 660 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
84 - 86	Max. 0.5	1 - 2.5	Max. 1.5	Max. 3	8 - 11	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D23 - 13911004



# TECHNICAL DATA

## G-CAST-A85S

Low Cement Castable

جرم آلومینایی ۸۵٪ آلومینا (اسپینلی)

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** Bauxite, Alumina Spinel and special additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1700 'C	2.65 - 2.8 gr/Cm3

Temperature	C.C.S.
110 'C	400 - 600 Kg/Cm2
800 'C	450 - 500 Kg/Cm2
1100 'C	650 - 800 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
84 - 85	Appr.2	1 - 2.5	1 - 2	1 - 3	7 - 11	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D56 - 13920410



# TECHNICAL DATA

## G-CAST-A90

Conventional Castable

جرم ریختنی آلومینایی ۹۰٪ آلومینا

**Type of Material** Dense Refractory Concrete  
**Raw Material Basis** Bauxite and Tabular Alumina

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1750 °C	2.7 - 2.8 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 500 Kg/Cm2
800 °C	Min. 400 Kg/Cm2
1100 °C	Min. 250 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
89 - 91	Max. 0.4	3 - 4.5	Max. 1	Max. 1.5	Max. 5	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water  
**Shelf Life** 6 Months ( dry, cool, frost free place )  
**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D24 - 13911117



# TECHNICAL DATA

## G-CAST-A90L

Low Cement Castable

جرم ریختنی آلومینایی ۹۰٪ آلومینا - کم سیمان

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** Bauxite and Tabular Alumina

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1750 °C	2.7 - 2.8 gr/Cm <sup>3</sup>

Temperature	C.C.S.
110 °C	500 - 580 Kg/Cm <sup>2</sup>
800 °C	----
1100 °C	420 - 500 Kg/Cm <sup>2</sup>

### Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	SiC	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Alkalies	C	L.O.I.
89 - 91	Max. 0.4	1 - 2.5	Max. 1.3	Max. 1.5	Max. 7	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D25 - 13911006



# TECHNICAL DATA

## G-CAST-A90S

Low Cement Castable

جرم آلومینایی ۹۰٪ آلومینا (اسپینلی)

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** Tabular, Alumina Spinel and special additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1750 'C	2.75 - 2.95 gr/Cm3

Temperature	C.C.S.
110 'C	400 - 600 Kg/Cm2
800 'C	450 - 500 Kg/Cm2
1100 'C	750 - 850 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
89 - 90	Appr.2	1 - 2.5	1 - 2	1 - 2	2 - 6	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D62 - 13920307



# TECHNICAL DATA

## G-CAST-A92

Conventional Castable

جرم ریختنی آلومینایی ۹۲٪ آلومینا

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** Tabular Alumina

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1750 °C	2.7 - 2.9 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 500 Kg/Cm2
800 °C	Min. 300 Kg/Cm2
1100 °C	Min. 500 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
91 - 93	Max. 0.3	3 - 4.5	Max. 0.6	Max. 0.8	Max. 3	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

### GODAZEHAZE AZARIN ASIA

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ID No. : D26 - 13911117



# TECHNICAL DATA

## G-CAST-A92L

Low Cement Castable

جرم ریختنی آلومینایی ۹۲٪ آلومینا - کم سیمان

Type of Material Dense Refractory Concrete

Raw Material Basis Tabular Alumina

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1750 'C	2.9 - 3 gr/Cm3

Temperature	C.C.S.
110 'C	Min. 600 Kg/Cm2
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
91 - 93	Max. 0.3	1 - 2.5	Max. 0.9	Max. 1.5	Max. 5	----	----	----	----	----	----

Condition as Delivered 25 Kg Bags, Dry for addition of water

Shelf Life 6 Months ( dry, cool, frost free place )

Installation Method Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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# TECHNICAL DATA

## G-CAST-A92S

Low Cement Castable

جرم ریختنی آلومینا اسپینلی ۹۲٪ آلومینا

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** Tabular Alumina, Spinel and Special Additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1800 'C	2.9 - 3 gr/Cm3

Temperature	C.C.S.
110 'C	Min. 600 Kg/Cm2
800 'C	-----
1100 'C	Min. 500 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
91 - 93	3 - 4	1 - 2.5	Max. 0.5	Max. 0.4	Max. 3	-----	-----	-----	-----	-----	-----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D28 - 13911117





# TECHNICAL DATA

## G-CAST-A93S

Low Cement Castable

جرم ریختنی آلومینا اسپینلی ۹۳٪ آلومینا

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** Tabular Alumina, Spinel and Special Additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1800 °C	2.9 - 3 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 480 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
92 - 93	3 - 4	1 - 2.5	Max. 0.5	Max. 0.4	Max. 2	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D29 - 13890413



# TECHNICAL DATA

## G-CAST-A94

Conventional Castable

جرم ریختنی آلومینایی ۹۴٪ آلومینا

**Type of Material** Dense Refractory Concrete  
**Raw Material Basis** Tabular Alumina and Special Additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1800 °C	2.8 - 3 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 700 Kg/Cm2
800 °C	-----
1100 °C	Min. 550 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
93 - 95	Max. 0.15	3 - 4.5	Max. 0.5	Max. 0.15	Max. 0.5	-----	-----	-----	-----	-----	-----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water  
**Shelf Life** 6 Months ( dry, cool, frost free place )  
**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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IRAN CODE  
  
8431160144040002  
ID No. : D30 - 13911117



# TECHNICAL DATA

## G-CAST-A94Cr

Low Cement Castable

جرم آلومینایی ۹۴٪ آلومینا دارای اکسید کروم

Type of Material Refractory Concrete

Raw Material Basis Tabular Alumina , Pure Cr2O3 and Special Additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1800 'C	2.9 - 3 gr/Cm3

Temperature	C.C.S.
110 'C	Min. 600 Kg/Cm2
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
92 - 95	Max. 0.2	1 - 2.5	Max. 0.4	Max. 0.2	Max. 1	----	2 - 3	----	----	----	----

Condition as Delivered 25 Kg Bags, Dry for addition of water

Shelf Life 6 Months ( dry, cool, frost free place )

Installation Method Casting / Vibrating

All data listed are reference values subject to production related tolerances . Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D47 - 13891014



# TECHNICAL DATA

## G-CAST-A94D

Conventional Catable

جرم ریختنی آلومینایی ۹۴٪ آلومینا (D)

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** Tabular Alumina and special additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1800 'C	2.8 - 3 gr/Cm3

Temperature	C.C.S.
110 'C	Min. 550 Kg/Cm2
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
93 - 95	Max. 0.3	Max. 2.5	Max. 0.8	Max. 0.8	Max. 2.5	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags. Dry for addition of Water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D71 - 13930325



# TECHNICAL DATA

## G-CAST-A94F

Conventional Castable

جرم ریختنی آلومینایی ۹۴٪ آلومینا - فایبر دار

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** Tabular Alumina and Special Additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1800 °C	2.9 - 3 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 550 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
93 - 95	Max. 0.15	3 - 4.5	Max. 0.5	Max. 0.15	Max. 0.5	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D31 - 13890413



# TECHNICAL DATA

## G-CAST-A94L

Low Cement Castable

جرم ریختنی آلومینایی ۹۴٪ آلومینا - کم سیمان

**Type of Material** Dense Refractory Concrete  
**Raw Material Basis** Tabular Alumina and Special Additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1800 'C	2.9 - 3 gr/Cm3

Temperature	C.C.S.
110 'C	Min. 550 Kg/Cm2
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
93 - 95	Max. 0.3	1 - 2.5	Max. 0.8	Max. 0.8	Max. 2.5	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water  
**Shelf Life** 6 Months ( dry, cool, frost free place )  
**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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# TECHNICAL DATA

## G-CAST-A94LF

Low Cement Castable

جرم ریختنی آلومینایی ۹۴٪ آلومینا - کم سیمان فایبر دار

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** Tabular Alumina and Special Additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1800 °C	2.9 - 3 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 550 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
93 - 95	Max. 0.3	1 - 2.5	Max. 0.8	Max. 0.8	Max. 2.5	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D52 - 13900930



# TECHNICAL DATA

## G-CAST-A94S

Low Cement Castable

جرم ریختنی آلومینا اسپینلی ۹۴٪ آلومینا

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** Tabular Alumina, Spinel and Special Additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1800 'C	2.9 - 3.1 gr/Cm3

Temperature	C.C.S.
110 'C	Min. 450 Kg/Cm2
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
93 - 94	3 - 4	1 - 2.5	Max. 0.5	Max. 0.3	Max. 0.7	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D33 - 13890413





# TECHNICAL DATA

## G-CAST-A95

Conventional Castable

جرم ریختنی آلومینایی ۹۵٪ آلومینا

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** Tabular Alumina and Special Additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1800 °C	2.85 - 2.95 gr/Cm <sup>3</sup>

Temperature	C.C.S.
110 °C	Min. 600 Kg/Cm <sup>2</sup>
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	SiC	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Alkalies	C	L.O.I.
Apr.95	Max. 0.1	3 - 4.5	Max. 0.12	----	Max. 0.2	----	----	----	Max. 0.15	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D55 - 13910911



# TECHNICAL DATA

## G-CAST-A95L

Low Cement Castable

جرم ریختنی آلومینایی ۹۵٪ آلومینا - کم سیمان

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** Tabular Alumina and Special Additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1800 'C	2.9 - 3 gr/Cm3

Temperature	C.C.S.
110 'C	Min. 700 Kg/Cm2
800 'C	-----
1100 'C	Min. 500 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
94 - 96	Max. 0.3	1 - 2.5	Max. 0.6	Max. 0.8	Max. 2	-----	-----	-----	Max. 0.2	-----	Appr.0.02

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D54 - 13911117



# TECHNICAL DATA

## G-CAST-A96

Conventional Castable

جرم ریختنی آلومینایی ۹۶٪ آلومینا

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** Tabular Alumina and Special Additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1820 °C	2.9 - 3 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 550 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
Apr.96	Max. 0.15	Apr.3	Max. 0.4	----	Max. 0.2	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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# TECHNICAL DATA

## G-CAST-A96L

Low Cement Castable

جرم ریختنی آلومینایی ۹۶٪ آلومینا - کم سیمان

**Type of Material** Dense Refractory Concrete  
**Raw Material Basis** Tabular Alumina and Special Additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1820 °C	2.9 - 3.1 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 550 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
Apr.96	Max. 0.2	1 - 2.5	Max. 0.5	Max. 0.5	Max. 1	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water  
**Shelf Life** 6 Months ( dry, cool, frost free place )  
**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D35 - 13890413



# TECHNICAL DATA

## G-CAST-A97L

Low Cement Castable

جرم ریختنی آلومینایی ۹۷٪ آلومینا - کم سیمان

**Type of Material** Dense Refractory Concrete  
**Raw Material Basis** Tabular Alumina and Special Additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1820 °C	2.9 - 3.1 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 550 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
Apr.97	Max. 0.15	1 - 2.2	Max. 0.4	Max. 0.1	Max. 0.3	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water  
**Shelf Life** 6 Months ( dry, cool, frost free place )  
**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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# TECHNICAL DATA

## G-DUNNITE-40

Filling Mass

ماسه مجرای EBT کوره های قوس الکتریکی

**Type of Material** Filling mix for Tap Hole channel of EBT furnaces.

**Raw Material Basis** Dunnite Sand

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
	2 - 7 mm	----	----

Temperature	C.C.S.
110 'C	----
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	SiC	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Alkalies	C	L.O.I.
1.55 - 0	Appr.40	Max. 2	8.4 - 0	----	35.2 - 0	----	0.41 - 0	----	----	----	Max. 10

**Condition as Delivered** Appr. 1000 Kg Big Bags are available.

**Shelf Life** Not Limited

**Installation Method** Dry Filling Mix.

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D86 - 13970816



# TECHNICAL DATA

## G-FM-LD1 (a)

جرم مجرای خروج مذاب از پاتیل فولاد

**Type of Material** Filling Mix for tap Hole Channels Of Ladles

**Raw Material Basis** Pure SiO<sub>2</sub> and Chromite Sand.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
----	0 - 2 mm	----	----

Temperature	C.C.S.
110 'C	----
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	SiC	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Alkalies	C	L.O.I.
----	----	----	----	----	Min. 77	----	10 - 15	----	----	Min. 1	----

**Condition as Delivered** 10 Kg Bags.

**Shelf Life** Not Limited

**Installation Method** Dry Filling Mix.

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D49 - 13900509



# TECHNICAL DATA

## G-FM-LD1

جرم مجرای خروج مذاب از پاتیل فولاد

**Type of Material** Filling Mix for tap Hole Channels Of Ladles

**Raw Material Basis** Pure SiO<sub>2</sub> and Chromite Sand.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
----	0 - 2.5 mm	----	----

Temperature	C.C.S.
110 'C	----
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	SiC	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Alkalies	C	L.O.I.
----	----	----	----	----	Min. 77	----	10 - 15	----	----	----	0.5 - 0.8

**Condition as Delivered** 15 Kg Bags.

**Shelf Life** Not Limited

**Installation Method** Dry Filling Mix.

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D37 - 13910421





# TECHNICAL DATA

## G-FM-LD2 (a)

Dry Filling Mix

جرم مجرای خروج مذاب از پاتیل فولاد با پوشش گرافیتی

**Type of Material** Filling Mix for tap Hole Channels Of Ladles

**Raw Material Basis** Pure SiO<sub>2</sub>, High Grade Chromite Sand

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
----	0 - 2 mm	----	----

Temperature	C.C.S.
110 'C	----
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	SiC	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Alkalies	C	L.O.I.
4 - 7	9 - 14	0.8 - 1.2	6 - 10	Max. 0.05	36 - 54	----	20 - 30	----	----	Appr.1	----

**Condition as Delivered** 1000 Kg Big Bag

**Shelf Life** Not Limited

**Installation Method** Filling Mix.

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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IRAN CODE  
  
6431160144040050  
ID No. : D53 - 13910220



# TECHNICAL DATA

## G-FM-LD2

Dry Filling Mix

جرم مجرای خروج مذاب از پاتیل فولاد با پوشش گرافیتی

**Type of Material** Filling Mix for tap Hole Channels Of Ladles

**Raw Material Basis** Pure SiO<sub>2</sub>, High Grade Chromite Sand

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
----	0 - 2.5 mm	----	----

Temperature	C.C.S.
110 'C	----
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	SiC	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Alkalies	C	L.O.I.
8 - 9.5	6 - 7	Max. 1.2	8 - 9.6	Max. 0.1	36 - 42	----	30 - 34	----	----	Max. 1	----

**Condition as Delivered** 1000 Kg Big Bag

**Shelf Life** Not Limited

**Installation Method** Filling Mix.

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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# TECHNICAL DATA

## G-FM-LD3 (a)

Dry Filling Mix

جرم مجرای خروج مذاب از پاتیل فولاد با پوشش گرافیتی

**Type of Material** Filling Mix for tap Hole Channels Of Ladles

**Raw Material Basis** High Grade Chromite Sand

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
	0 - 1 mm	----	----

Temperature	C.C.S.
110 'C	----
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	SiC	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Alkalies	C	L.O.I.
10 - 11	8 - 12	Max. 0.5	10 - 11	Max. 0.1	Max. 24	----	40 - 42	----	----	Appr.1	----

**Condition as Delivered** 10 Kg Bags

**Shelf Life** Not Limited

**Installation Method** Filling Mix.

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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# TECHNICAL DATA

## G-FM-LD3

Dry Filling Mix

جرم مجرای خروج مذاب از پاتیل فولاد با پوشش گرافیتی

**Type of Material** Filling Mix for tap Hole Channels Of Ladles

**Raw Material Basis** High Grade Chromite Sand

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
----	0 - 2.5 mm	----	----

Temperature	C.C.S.
110 'C	----
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	SiC	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Alkalies	C	L.O.I.
10 - 12	7 - 9	Max. 1.2	11 - 12	Max. 0.1	Max. 20	----	40 - 45	----	----	Aprr.2	----

**Condition as Delivered** 1000 Kg Big Bag

**Shelf Life** Not Limited

**Installation Method** Filling Mix.

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D46 - 13891012



# TECHNICAL DATA

## G-GUN-A40

Gunning

جرم گانینگ آلومینایی ۴۰٪ آلومینا

Type of Material Gunning Mix

Raw Material Basis Chamnote, and Special Additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Chemical	0 - 2 mm	1300 'C	2.3 - 2.4 gr/Cm3

Temperature	C.C.S.
110 'C	----
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
38 - 42	----	Max. 1	Max. 2.2	Max. 2.7	----	----	----	----	----	----	----

Condition as Delivered 1000 Kg Big Bag

Shelf Life 6 Months ( dry, cool, frost free place )

Installation Method Gunning.

All data listed are reference values subject to production related tolerances . Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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6431160144040037  
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# TECHNICAL DATA

## G-MOR-A70

Mortar

ملات مورتار آلومینایی

Type of Material Refractory Mortar

Raw Material Basis Bauxite.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Ceramic	0 - 0.2 mm	1700 'C	----

Temperature	C.C.S.
110 'C	----
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	SiC	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Alkalies	C	L.O.I.
69 - 71	----	Max. 0.5	1.5 - 2	----	15 - 18	----	----	----	Max. 2	----	----

Condition as Delivered 20 Kg Bags, Dry for addition of water

Shelf Life Not Limited.

Installation Method Mortar (General Use)

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D65 - 13920419



# TECHNICAL DATA

## G-MOR-A90Cr

Mortar

ملات آلومینایی ۹۰٪ آلومینا - اکسید کروم دار

**Type of Material** Pure Alumina Ramming Mix

**Raw Material Basis** Tabular Alumina and special additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Chemical -Ceramic	0 - 0.2 mm	1700 'C	----

Temperature	C.C.S.
110 'C	----
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	SiC	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Alkalies	C	L.O.I.
89 - 91	----	----	Max. 0.6	----	4 - 6	----	Min. 3	----	----	----	----

**Condition as Delivered** 1000 Kg Big Bag, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Mortar

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D66 - 13920713



# TECHNICAL DATA

## G-OLIAFILL-40

Filling Mass

ماسه مجرای EBT کوره های قوس الکتریکی

**Type of Material** Filling mix for Tap Hole channel of EBT furnaces.

**Raw Material Basis** Olivine Sand.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
----	2 - 7 mm	----	----

Temperature	C.C.S.
110 'C	----
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	SiC	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Alkalies	C	L.O.I.
0.2 - 0.4	Min. 48	0.3 - 0.8	6 - 9	----	39 - 42	----	0.2 - 0.6	----	----	----	Max. 6

**Condition as Delivered** Appr. 15Kg and 23Kg Bags are available.

**Shelf Life** Not Limited

**Installation Method** Dry Filling Mix.

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D43 - 13900605





# TECHNICAL DATA

## G-OLIFILL-40 (a)

Filling Mass

ماسه مجرای EBT کوره های قوس الکتریکی

**Type of Material** Filling mix for Tap Hole channel of EBT furnaces.

**Raw Material Basis** Olivine Sand

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
	3 - 8 mm	----	----

Temperature	C.C.S.
110 'C	----
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	SiC	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Alkalies	C	L.O.I.
0.5 - 0.7	43 - 47	Max. 1	7 - 9	----	38 - 42	----	Max. 1	----	----	----	Max. 3

**Condition as Delivered** Appr. 1000 Kg Big Bags are available.

**Shelf Life** Not Limited

**Installation Method** Dry Filling Mix.

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D87 - 13971015



## TECHNICAL DATA

### G-RAM-A80

G-RAM-A80

جرم کوبیدنی خشک

**Type of Material** Dry Ramming Mix

**Raw Material Basis** Bauxite

#### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Chemical-Organic	0 - 3 mm	----	----

Temperature	C.C.S.
110 'C	----
800 'C	----
1100 'C	----

#### Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	SiC	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Alkalies	C	L.O.I.
Min. 80	----	----	Max. 2	Max. 3	8- 10	----	----	----	----	----	----

**Condition as Delivered** 20 Kg Bags

**Shelf Life** From 10 to 15 Days according to Temperature of storage place. ( Store in Cool Place )

**Installation Method** Ramming

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D70 - 13930319

# TECHNICAL DATA

## G-RAM-A80

G-RAM-A80

جرم کوبیدنی خشک

**Type of Material**            **Dry Ramming Mix**

**Raw Material Basis**        **Bauxite**

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Chemical-Organic	0 - 3 mm	----	----

Temperature	C.C.S.
110 'C	----
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	SiC	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Alkalies	C	L.O.I.
Min. 78	----	----	Max. 2	Max. 3	10 - 12	----	----	----	----	----	----

**Condition as Delivered**    **20 Kg Bags**

**Shelf Life**                    **From 10 to 15 Days according to Temperature of storage place. ( Store in Cool Place )**

**Installation Method**        **Ramming**

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. :    D70 - 13930319



# TECHNICAL DATA

## G-RAM-A85

جرم کوبیدنی خشک

**Type of Material**            **Dry Ramming Mix**

**Raw Material Basis**        **Bauxite**

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Chemical - Organic	0 - 3 mm	----	----

Temperature	C.C.S.
110 'C	----
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	SiC	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Alkalies	C	L.O.I.
Min. 80	----	----	Max. 2	Max. 3	11 - 13	----	----	----	----	----	----

**Condition as Delivered**    **20 Kg Bags**

**Shelf Life**                    **From 10 to 15 Days according to Temperature of storage place. ( Store in Cool Place )**

**Installation Method**        **Ramming**

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. :    **D38 - 13890413**



# TECHNICAL DATA

## G-RAM-A90Cr

Ramming

جرم کوبیدنی آلومینایی ۹۰٪ آلومینا - اکسید کروم دار

**Type of Material** Pure Alumina Ramming Mix

**Raw Material Basis** Tabular Alumina and special additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Chemical -Ceramic	0 - 3 mm	1700 'C	----

Temperature	C.C.S.
110 'C	----
800 'C	----
1100 'C	----

### Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	SiC	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Alkalies	C	L.O.I.
89 - 91	----	----	Max. 0.6	----	4 - 6	----	Min. 2	----	----	----	----

**Condition as Delivered** 1000 Kg Big Bag, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Ramming

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D67 - 13920714



# TECHNICAL DATA

## **G-RAM-MWT**

گل مجرای مرطوب

**Type of Material** Plastic Mix for Tap hole channel of Blast Furnaces.

**Raw Material Basis** Fireclay

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Carbon	0 - 3 mm	1600 'C	----

Temperature	C.C.S.
110 'C	----
800 'C	10 - 40 Kg/Cm2
1100 'C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
8 - 11	----	----	Max. 2.5	----	23 - 30	----	----	----	----	----	35 - 45

**Condition as Delivered** 1000 Kg Big Bag

**Shelf Life** 1 Month ( dry, cool, frost free place )

**Installation Method** Injection, Gunning

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D57 - 13911103



# TECHNICAL DATA

## G-RAM-NR

گل جوی معمولی

**Type of Material** Ramming mix for blast furnace runners.

**Raw Material Basis** Fireclay & Quartz

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Carbon	0 - 3 mm	1600 'C	----

Temperature	C.C.S.
110 'C	----
800 'C	70 - 100 Kg/Cm2
1100 'C	----

### Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	MgO	CaO	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiO <sub>2</sub>	SiC	Cr <sub>2</sub> O <sub>3</sub>	ZrO <sub>2</sub>	Alkalies	C	L.O.I.
10 - 14	----	----	Max. 2	----	32 - 35	----	----	----	----	----	45 - 55

**Condition as Delivered** 1000 Kg Big Bag

**Shelf Life** 1 Month ( dry, cool, frost free place )

**Installation Method** Ramming

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D58 - 13911104



# TECHNICAL DATA

## G-RAM-OIL

گل مجرای روغنی

**Type of Material** Ingection Mix for Tap hole channel of Blast Furnaces.

**Raw Material Basis** Silicon Carbide and Quartz

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Carbon	0 - 3 mm	1700 'C	----

Temperature	C.C.S.
110 'C	----
800 'C	10 - 40 Kg/Cm2
1100 'C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
Min. 7	----	----	----	----	----	Aprr.10	----	----	----	----	----

**Condition as Delivered** Cubic

**Shelf Life** 3 Months ( dry, cool, frost free place )

**Installation Method** Tap hole clay, Injection

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D48 - 13900909





# TECHNICAL DATA

## G-RAM-SIC

گل جوی سیلیکون کاربایدی

**Type of Material** Ramming mix for blast furnace runners.

**Raw Material Basis** Bauxite, silicon carbide

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Carbon	0 - 3 mm	1700 'C	-----

Temperature	C.C.S.
110 'C	150 - 200 Kg/Cm2
800 'C	130 - 140 Kg/Cm2
1100 'C	-----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
Min. 40	-----	-----	-----	-----	-----	Aprr.15	-----	-----	-----	-----	-----

**Condition as Delivered** 1000 Kg Big Bag

**Shelf Life** 3 Month ( dry, cool, frost free place )

**Installation Method** Ramming

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D59 - 13920410



# TECHNICAL DATA

## G-BLCAST-A92S

Low Cement Castable

جرم ریختنی آلومینا اسپینلی ۹۲٪ آلومینا

**Type of Material** Pre-Shaped Refractory Concrete.

**Raw Material Basis** Tabular Alumina, Spinel and Special Additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1800 °C	Appr. 2.8 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 650 Kg/Cm2
800 °C	-----
1100 °C	Min. 550 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
91 - 93	5 - 6	Max. 1.9	Max. 0.2	Max. 0.05	Max. 0.3	-----	-----	-----	-----	-----	-----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

### GODAZEHAZE AZARIN ASIA

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ID No. : D39 - 13911117



# TECHNICAL DATA

## G-CAST-50SiC

جرم ریختنی سیلیکون کاربایدی با کیفیت ۵۰٪ سیلیکون کارباید

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** High Grade SiC and High Alumina Raw Materials

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1500 °C	Appr. 2.4 gr/Cm3

Temperature	C.C.S.
110 °C	400 - 600 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
35 - 40	Max. 0.3	3 - 4.5	Max. 1	Max. 0.6	3 - 6	Appr.50	----	----	----	----	----

**Condition as Delivered** 40 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D16 - 13890413



# TECHNICAL DATA

## G-CAST-A22

Conventional Castable

جرم ریختنی آلومینایی ۲۲٪ آلومینا

Type of Material Dense Refractory Concrete

Raw Material Basis FireClay

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1150 °C	Appr. 2 gr/Cm3

Temperature	C.C.S.
110 °C	250 - 450 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
Min. 22	----	8 - 10	----	----	----	----	----	----	----	----	----

Condition as Delivered 40 Kg Bags, Dry for addition of water

Shelf Life 6 Months ( dry, cool, frost free place )

Installation Method Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D2 - 13890413



# TECHNICAL DATA

## G-CAST-A35

Conventional Castable

جرم ریختنی آلومینایی ۳۵٪ آلومینا

Type of Material Dense Refractory Concrete

Raw Material Basis FireClay

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1250 °C	Appr. 2 gr/Cm3

Temperature	C.C.S.
110 °C	250 - 450 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
Min. 35	----	8 - 10	----	----	----	----	----	----	----	----	----

Condition as Delivered 40 Kg Bags, Dry for addition of water

Shelf Life 6 Months ( dry, cool, frost free place )

Installation Method Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D3 - 13890413



# TECHNICAL DATA

## G-CAST-A35AR

جرم ریختنی آلومینایی ضد آکالی ۳۵٪ آلومینا

**Type of Material** Dense Refractory Concrete ( Alkali Resistant )

**Raw Material Basis** Chamotte and High Grade SiC

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1350 °C	2.2 - 2.4 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 450 Kg/Cm2
800 °C	----
1100 °C	Min. 400 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
Min. 35	----	3 - 6	----	----	----	Appr.20	----	----	----	----	----

**Condition as Delivered** 40 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances . Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D4 - 13890413



# TECHNICAL DATA

## G-CAST-A35In

Conventional Castable

جرم ریختنی آلومینایی عایق ۳۵٪ آلومینا

Type of Material      **Insulating Castable**

Raw Material Basis      **Lightwight fireclay**

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1200 °C	Appr. 1.3 gr/Cm3

Temperature	C.C.S.
110 °C	90 - 150 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
Min. 35	----	8 - 12	----	----	----	----	----	----	----	----	----

Condition as Delivered      **30 Kg Bags, Dry for addition of water**

Shelf Life      **6 Months ( dry, cool, frost free place )**

Installation Method      **Casting**

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. :      **D5 - 13890413**



# TECHNICAL DATA

## G-CAST-A40

Conventional Castable

جرم ریختنی آلومینایی ۴۰٪ آلومینا

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** FireClay

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1300 °C	Appr. 2 gr/Cm3

Temperature	C.C.S.
110 °C	250 - 450 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
Min. 40	----	8 - 10	----	----	----	----	----	----	----	----	----

**Condition as Delivered** 40 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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IRAN CODE



6 4 3 1 1 6 0 1 4 4 0 4 0 0 1 9

ID No. : D6 - 13890413





# TECHNICAL DATA

## G-CAST-A40AR

جرم ریختنی آلومینایی ضد آکالی ۴۰٪ آلومینا

**Type of Material** Dense Refractory Concrete ( Alkali Resistant )

**Raw Material Basis** High Alumina Chamotte and High Grade SiC

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1250 °C	Appr. 2.2 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 500 Kg/Cm2
800 °C	-----
1100 °C	Min. 500 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
Min. 40	-----	3 - 6	-----	-----	-----	Appr.20	-----	-----	-----	-----	-----

**Condition as Delivered** 40 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D9 - 13890413



# TECHNICAL DATA

## G-CAST-A40In

Conventional Castable

جرم ریختنی آلومینایی عایق ۴۰٪ آلومینا

Type of Material **Insulating Castable**

Raw Material Basis **Lightweight Chamotte**

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1250 °C	Appr. 1.4 gr/Cm3

Temperature	C.C.S.
110 °C	150 - 200 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
Min. 40	----	8 - 12	----	----	----	----	----	----	----	----	----

Condition as Delivered **30 Kg Bags, Dry for addition of water**

Shelf Life **6 Months ( dry, cool, frost free place )**

Installation Method **Casting**

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : **D8 - 13890413**



# TECHNICAL DATA

## G-CAST-A45

Conventional Castable

جرم ریختنی آلومینایی ۴۵٪ آلومینا

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** Chamotte

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1400 °C	Appr. 2.1 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 400 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
Min. 45	----	8 - 9	----	----	----	----	----	----	----	----	----

**Condition as Delivered** 40 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D10 - 13890413



# TECHNICAL DATA

## G-CAST-A45AR

جرم ریختنی آلومینایی ضد آکالی ۴۵٪ آلومینا

**Type of Material** Dense Refractory Concrete ( Alkali Resistant )

**Raw Material Basis** High Alumina Agregates and High Grade SiC

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1400 °C	Appr. 2.2 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 550 Kg/Cm2
800 °C	-----
1100 °C	Min. 600 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
45 - 52	-----	3 - 6	-----	-----	-----	15 - 20	-----	-----	-----	-----	-----

**Condition as Delivered** 40 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances . Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D12 - 13911117



# TECHNICAL DATA

## G-CAST-A45In

Conventional Castable

جرم ریختنی آلومینایی عایق ۴۵٪ آلومینا

Type of Material **Insulating Castable**

Raw Material Basis **Lightweight Chamotte**

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1300 °C	Appr. 1.5 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 200 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
Min. 45	----	8 - 12	----	----	----	----	----	----	----	----	----

Condition as Delivered **30 Kg Bags, Dry for addition of water**

Shelf Life **6 Months ( dry, cool, frost free place )**

Installation Method **Casting**

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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IRAN CODE



6 4 3 1 1 6 0 1 4 4 0 4 0 0 1 6

ID No. : **D11 - 13890413**



# TECHNICAL DATA

## G-CAST-A50

Conventional Castable

جرم ریختنی آلومینایی ۵۰٪ آلومینا

**Type of Material** Dense Refractory Concrete  
**Raw Material Basis** High Alumina Chamotte and Special Additives

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1500 °C	Appr. 2.3 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 400 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
49 - 51	----	8 - 9	----	----	----	----	----	----	----	----	----

**Condition as Delivered** 40 Kg Bags, Dry for addition of water  
**Shelf Life** 6 Months ( dry, cool, frost free place )  
**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D13 - 13890413



# TECHNICAL DATA

## G-CAST-A55

Conventional Castable

جرم ریختنی آلومینایی ۵۵٪ آلومینا

**Type of Material** Dense Refractory Concrete  
**Raw Material Basis** High Alumina Chamotte and Special Additives

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1500 °C	2.2 - 2.3 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 400 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
54 - 56	----	Max. 5	----	----	----	----	----	----	----	----	----

**Condition as Delivered** 40 Kg Bags, Dry for addition of water  
**Shelf Life** 6 Months ( dry, cool, frost free place )  
**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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IRAN CODE  
  
6431160144040043  
ID No. : D14 - 13921023



# TECHNICAL DATA

## G-CAST-A55AR

جرم ریختنی آلومینایی ضد آکالی ۵۵٪ آلومینا

**Type of Material** Dense Refractory Concrete ( Alkali Resistant )

**Raw Material Basis** High Alumina Agregates and High Grade SiC

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1500 °C	Appr. 2.3 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 550 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
Min. 55	----	3 - 6	----	----	----	Appr.20	----	----	----	----	----

**Condition as Delivered** 40 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances . Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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IRAN CODE  
  
6431160144040042  
ID No. : D15 - 13890413





# TECHNICAL DATA

## G-CAST-A60

Conventional Castable

جرم ریختنی آلومینایی ۶۰٪ آلومینا

**Type of Material** Dense Refractory Concrete  
**Raw Material Basis** High Alumina Chamotte and Bauxite

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1600 °C	2.4 - 2.5 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 500 Kg/Cm2
800 °C	----
1100 °C	Min. 320 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
59 - 61	Max. 0.5	4 - 6	Max. 1.7	Max. 2.2	25 - 29	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water  
**Shelf Life** 6 Months ( dry, cool, frost free place )  
**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

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ID No. : D17 - 13911117



# TECHNICAL DATA

## G-CAST-A60An

Low Cement Castable

جرم ریختنی آلومینایی آندالوزیتی ۶۰٪ آلومینا

Type of Material Dense Refractory Concrete

Raw Material Basis Andalusite

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1600 °C	Appr. 2.65 gr/Cm3

Temperature	C.C.S.
110 °C	500 - 800 Kg/Cm2
800 °C	----
1100 °C	Min. 500 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
61 - 64	Max. 0.5	1 - 2.5	Max. 0.8	Max. 0.5	29 - 32	----	----	----	----	----	----

Condition as Delivered 40 Kg Bags, Dry for addition of water

Shelf Life 6 Months ( dry, cool, frost free place )

Installation Method Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

### GODAZEHAZE AZARIN ASIA

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ID No. : D18 - 13911117



# TECHNICAL DATA

## G-CAST-A60L

Low Cement Castable

جرم ریختنی آلومینایی ۶۰٪ آلومینا- کم سیمان

**Type of Material** Dense Refractory Concrete

**Raw Material Basis** High Alumina Chamotte and Bauxite and Special Additives.

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1600 °C	2.45 - 2.55 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 400 Kg/Cm2
800 °C	----
1100 °C	Min. 350 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
59 - 61	Max. 0.3	1 - 2.5	Max. 2.5	Max. 3	----	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

### GODAZEHAZE AZARIN ASIA

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ID No. : D63 - 13920417



# TECHNICAL DATA

## G-CAST-A70

Conventional Castable

جرم ریختنی آلومینایی ۷۰٪ آلومینا

**Type of Material** Dense Refractory Concrete  
**Raw Material Basis** High Alumina Chamotte and Bauxite

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 8 mm	1620 °C	2.45 - 2.55 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 500 Kg/Cm2
800 °C	----
1100 °C	Min. 150 Kg/Cm2

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
69 - 71	Max. 0.5	4 - 6	Max. 1.7	Max. 2	18 - 20	----	----	----	----	----	----

**Condition as Delivered** 25 Kg Bags, Dry for addition of water

**Shelf Life** 6 Months ( dry, cool, frost free place )

**Installation Method** Casting / Vibrating

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

### GODAZEHAZE AZARIN ASIA

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ID No. : D19 - 13911117



# TECHNICAL DATA

## G-CAST-A70An

Low cement castable

جرم ریختنی آلومینایی آندالوزیتی ۷۰٪ آلومینا

Type of Material **Dence Refractory Concrete**

Raw Material Basis **Andalusite**

### Physical Properties

Bonding System	Granulation	Maximum Temp. of Application	Bulk Density
Hydraulic	0 - 5 mm	1600 °C	2.73 - 2.75 gr/Cm3

Temperature	C.C.S.
110 °C	Min. 600 Kg/Cm2
800 °C	----
1100 °C	----

### Chemical Analysis (%)

Al2O3	MgO	CaO	Fe2O3	TiO2	SiO2	SiC	Cr2O3	ZrO2	Alkalies	C	L.O.I.
69 - 71	0.3 - 0.8	1 - 2.5	0.75 - 1.4	0.93 - 1.28	23 - 25	----	----	----	----	----	----

Condition as Delivered **25 Kg Bags. Dry for addition of Water**

Shelf Life **6 Months ( dry, cool, frost free place )**

Installation Method **Casting / Vibrating**

All data listed are reference values subject to production related tolerances. Although reasonable care has been taken in the preparation of the information contained herein, it still remains the duty of the user to prove the suitability of this material for his applications.

### GODAZEHAZE AZARIN ASIA

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ID No. : D69 - 13930220

