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ISO:WIN-41093-E

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Fireclay & High Alumina Bricks

ISO: WIN-41093-E

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Fireclay Brick

AZAR – A40A

CHEMICAL ANALYSIS

AL2O3	%	Min 40
Fe2O3	%	Max 2
SiO2	%	Max 55

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm3	2.10-2.30
Apparent Porosity (Po.)	Vol-%	10-16
Cold Crushing Strength(c.c.s)	Kg/cm2	350-600
Thermal Shock Resistance (TSR-H2O)	cycles	15
Refractoriness Under Load (differential)	T0.5°C	Min 1330
Refractoriness	°C	1730

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Fireclay Brick

AZAR – A40B

CHEMICAL ANALYSIS

AL2O3	%	Min 40
Fe2O3	%	Max 2.80
SiO2	%	Max 55

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm3	2.10-2.30
Apparent Porosity (Po.)	Vol-%	10-16
Cold Crushing Strength(c.c.s)	Kg/cm2	300-500
Thermal Shock Resistance (TSR-H2O)	cycles	15
Refractoriness Under Load (differential)	T0.5°C	Min 1320
Refractoriness	°C	1700

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Fireclay Brick

AZAR – A40C

CHEMICAL ANALYSIS

AL2O3	%	Min 38
Fe2O3	%	Max 3
SiO2	%	Max 54

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm3	2.10-2.30
Apparent Porosity (Po.)	Vol-%	12-18
Cold Crushing Strength(c.c.s)	Kg/cm2	250-400
Thermal Shock Resistance (TSR-H2O)	cycles	13
Refractoriness Under Load (differential)	T0.5°C	Min 1310
Refractoriness	°C	1700

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High Alumina Brick

AZAR – A50

CHEMICAL ANALYSIS

AL2O3	%	Min 47
Fe2O3	%	Max 2.50
SiO2	%	Max 47

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm3	2.20-2.40
Apparent Porosity (Po.)	Vol-%	13-20
Cold Crushing Strength(c.c.s)	Kg/cm2	300-550
Thermal Shock Resistance (TSR-H2O)	cycles	20
Refractoriness Under Load (differential)	T0.5°C	Min 1340
Refractoriness	°C	1740

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High Alumina Brick

AZAR – A60

CHEMICAL ANALYSIS

AL2O3	%	Min 57
Fe2O3	%	Max 2
SiO2	%	Max 35

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm ³	2.20-2.40
Apparent Porosity (Po.)	Vol-%	15-21
Cold Crushing Strength(c.c.s)	Kg/cm ²	350-650
Thermal Shock Resistance (TSR-H2O)	cycles	20
Refractoriness Under Load (differential)	T0.5°C	Min 1350
Refractoriness	°C	1750

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High Alumina Brick

AZAR – A65

CHEMICAL ANALYSIS

AL2O3	%	Min 63
Fe2O3	%	Max 2
SiO2	%	Max 30

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm ³	2.30-2.50
Apparent Porosity (Po.)	Vol-%	15-22
Cold Crushing Strength(c.c.s)	Kg/cm ²	350-600
Thermal Shock Resistance (TSR-H2O)	cycles	22
Refractoriness Under Load (differential)	T0.5°C	1355
Refractoriness	°C	1760

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High Alumina Brick

AZAR – A70

CHEMICAL ANALYSIS

AL2O3	%	Min 68
Fe2O3	%	Max 2
SiO2	%	Max 25

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm3	2.35-2.60
Apparent Porosity (Po.)	Vol-%	16-22
Cold Crushing Strength(c.c.s)	Kg/cm2	400-650
Thermal Shock Resistance (TSR-H2O)	cycles	25
Refractoriness Under Load (differential)	T0.5°C	Min 1360
Refractoriness	°C	1770

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High Alumina Brick

AZAR – A70 SP

CHEMICAL ANALYSIS

AL2O3	%	Min 68
Fe2O3	%	Max 2
SiO2	%	Max 25

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm3	2.40 -2.60
Apparent Porosity (Po.)	Vol-%	16-22
Cold Crushing Strength(c.c.s)	Kg/cm2	500-750
Thermal Shock Resistance (TSR-H2O)	cycles	30
Refractoriness Under Load (differential)	T0.5°C	Min 1360
Refractoriness	°C	1770

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High Alumina Brick

AZAR – A75

CHEMICAL ANALYSIS

AL2O3	%	Min 73
Fe2O3	%	Max 2
SiO2	%	Max 20

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm ³	2.35-2.60
Apparent Porosity (Po.)	Vol-%	17-22
Cold Crushing Strength(c.c.s)	Kg/cm ²	450-700
Thermal Shock Resistance (TSR-H2O)	cycles	30
Refractoriness Under Load (differential)	T0.5°C	Min 1370
Refractoriness	°C	1770

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High Alumina Brick

AZAR – A80

CHEMICAL ANALYSIS

AL2O3	%	Min 78
Fe2O3	%	Max 2
SiO2	%	Max 17

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm3	2.40-2.70
Apparent Porosity (Po.)	Vol-%	17-23
Cold Crushing Strength(c.c.s)	Kg/cm2	500-800
Thermal Shock Resistance (TSR-H2O)	cycles	30
Refractoriness Under Load (differential)	T0.5°C	Min 1450
Refractoriness	°C	1780

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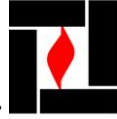
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High Alumina Brick

AZAR – A85 SP

CHEMICAL ANALYSIS

AL2O3	%	Min 78
Fe2O3	%	Max 2
SiO2	%	Max 17

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm3	2.50-2.75
Apparent Porosity (Po.)	Vol-%	15-22
Cold Crushing Strength(c.c.s)	Kg/cm2	700-1000
Thermal Shock Resistance (TSR-H2O)	cycles	30
Refractoriness Under Load (differential)	T0.5°C	Min 1430
Refractoriness	°C	1780

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Alumina Based Slide Gate

AZAR-ALG-SGP

Raw Material Base
Type of Bonding

Bauxite, Graphite
Ceramic

CHEMICAL ANALYSIS

Al₂O₃	%	80-85
SiO₂	%	9-11
ZrO₂	%	4-5

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm ³	Min 3.0-3.10
Apparent Porosity (Po.)	Vol-%	Max 7.0
Cold Crushing Strength(c.c.s)	Kg/cm ²	Min 1100
Bending Strength	Kg/cm ²	Min 180
Residual Carbon	%	3 - 4

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Alumina Based Slide Gate

AZAR-ALG-SGN

Raw Material Base
Type of Bonding

Bauxite, Graphite
Ceramic

CHEMICAL ANALYSIS

Al₂O₃	%	80-85
SiO₂	%	9-11
ZrO₂	%	4-5

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm ³	Min 3.0-3.10
Apparent Porosity (Po.)	Vol-%	Max 7.0
Cold Crushing Strength(c.c.s)	Kg/cm ²	Min 1100
Bending Strength	Kg/cm ²	Min 180
Residual Carbon	%	3 - 4

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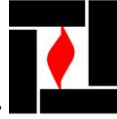
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Resin Bonded Alumina Mag-Carbon Brick

AZAR AMC**Raw Material Base****Fused Alumina, Magnesia**

CHEMICAL ANALYSIS

Al₂O₃	%	Min 76
MgO	%	Min 5

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm ³	Min 3.0
Apparent Porosity (Po.)	Vol-%	Max 4.0
Cold Crushing Strength(c.c.s)	Kg/cm ²	Min 250
C After Coking 2h at 1000 °C	%	Min 4.5

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Fireclay & High Alumina Mortars

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Chamotte Mortar

AZARMOR-45

CHEMICAL ANALYSIS

AL2O3	%	Min 45
Fe2O3	%	Max 2.50

PHYSICAL PROPERTIES

Refractoriness	°C	1730
Grain Size	mm	Max 0.40

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High Alumina Mortar

AZARMOR-60

CHEMICAL ANALYSIS

AL2O3	%	Min 58
Fe2O3	%	Max 2

PHYSICAL PROPERTIES

Refractoriness	°C	>1730
Grain Size	mm	Max 0.40

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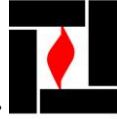
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High Alumina Mortar

AZARMOR-65

CHEMICAL ANALYSIS

AL2O3	%	Min 63
Fe2O3	%	Max 2

PHYSICAL PROPERTIES

Refractoriness	°C	>1730
Grain Size	mm	Max 0.40

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High Alumina Mortar

AZARMOR-70

CHEMICAL ANALYSIS

AL2O3	%	Min 68
Fe2O3	%	Max 2

PHYSICAL PROPERTIES

Refractoriness	°C	1750
Grain Size	mm	Max 0.40

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Refractory Castables

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Refractory Castable

AZARCAST-22

Raw Material Base
Application Method

Fireclay
Casting, Vibrating

CHEMICAL ANALYSIS

AL2O3	%	Min 37
Fe2O3	%	Max 6
CaO	%	Max 15

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm3	Max 1.15
Mixing Liquid(water)	%	25-30
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm2	Min 50
after firing at 1000 °c	Kg/cm2	Min 20
Permanent Linear Change		
at 1150 °c	%	-0.60
Max. Service Temp.	°c	1000
Refractoriness	°c	1200
Storage Limit	months	12

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Refractory Castable

AZARCAST-23

**Raw Material Base
Application Method**

**Fireclay
Casting, Vibrating**

CHEMICAL ANALYSIS

AL2O3	%	Min 39
Fe2O3	%	Max 6
CaO	%	Max 13

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm ³	Max 1.30
Mixing Liquid(water)	%	20-25
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm ²	Min 30
after firing at 1000 °c	Kg/cm ²	Min 40
Permanent Linear Change at 1250 °c	%	-0.70
Max. Service Temp.	°c	1250
Refractoriness	°c	1300
Storage Limit	months	12

Refractory Castable

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AZARCAST-CR 30

Raw Material Base
Application Method

Chromite
Casting, Vibrating

CHEMICAL ANALYSIS

AL2O3	%	Min 38
Cr2O3	%	Min 24
Fe2O3	%	Max13
CaO	%	Max 7

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm ³	Min 2.90
Mixing Liquid(water)	%	8-10
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm ²	Min 500
after firing at 1000 °c	Kg/cm ²	Min 300
after firing at 1500 °c	Kg/cm ²	Min 400
Permanent Linear Change		
at 1400 °c	%	-1.0
Max. Service Temp.	°c	1400
Refractoriness	°c	1500
Storage Limit	months	12

Refractory Castable

ISO: WIN-41093-E

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AZARCAST-50

Raw Material Base
Application Method

Fireclay
Casting, Vibrating

CHEMICAL ANALYSIS

AL2O3	%	Min 45
Fe2O3	%	Max 6
CaO	%	Max 12

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm ³	Min 2.25
Mixing Liquid(water)	%	11-13
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm ²	Min 350
after firing at 1000 °c	Kg/cm ²	Min 150
after firing at 1250 °c	Kg/cm ²	Min 120
Permanent Linear Change		
at 1250 °c	%	±0.80
Max. Service Temp.	°c	1250
Refractoriness	°c	1350
Storage Limit	months	12

Refractory Castable

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AZARCAST-50C

Raw Material Base
Application Method

Fireclay
Casting, Vibrating

CHEMICAL ANALYSIS

AL2O3	%	Min 45
Fe2O3	%	Max 6
CaO	%	Max 12

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm ³	Min 2.25
Mixing Liquid(water)	%	11-13
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm ²	Min 300
after firing at 1000 °c	Kg/cm ²	Min 180
after firing at 1250 °c	Kg/cm ²	Min 140
Permanent Linear Change		
at 1250 °c	%	±0.80
Max. Service Temp.	°c	1250
Refractoriness	°c	1350
Storage Limit	months	12

Refractory Castable

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AZARCAST-50G

Raw Material Base
Application Method

Fireclay
Gunning

CHEMICAL ANALYSIS

AL2O3	%	Min 45
Fe2O3	%	Max 6
CaO	%	Max 12

PHYSICAL PROPERTIES

Grain Size	mm	0-3
Bulk Density (Db.)	g/cm ³	Min 2.10
Mixing Liquid(water)	%	13-15
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm ²	Min 250
after firing at 1000 °c	Kg/cm ²	Min 160
after firing at 1250 °c	Kg/cm ²	Min 100
Permanent Linear Change		
at 1250 °c	%	- 0.3
Max. Service Temp.	°c	1250
Refractoriness	°c	1350
Storage Limit	months	12

Refractory Castable

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AZARCAST-50D

**Raw Material Base
Application Method**

**Fireclay
Casting, Vibrating**

CHEMICAL ANALYSIS

AL2O3	%	Min 45
Fe2O3	%	Max 6
CaO	%	Max 12

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm3	Min 2.28
Mixing Liquid(water)	%	11-13
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm2	Min 350
after firing at 1000 °c	Kg/cm2	Min 200
after firing at 1250 °c	Kg/cm2	Min 170
Permanent Linear Change		
at 1250 °c	%	±0.80
Max. Service Temp.	°c	1250
Refractoriness	°c	1350
Storage Limit	months	12

Refractory Castable

AZARCAST-60

ISO:WIN-41093-E

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**Raw Material Base
Application Method**

**Fireclay
Casting, Vibrating**

CHEMICAL ANALYSIS

AL2O3	%	Min 55
Fe2O3	%	Max 2.50
CaO	%	Max 6.50

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm ³	Min 2.20
Mixing Liquid(water)	%	8-10
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm ²	Min 300
after firing at 1000 °c	Kg/cm ²	Min 250
after firing at 1400 °c	Kg/cm ²	Min 350
Permanent Linear Change		
at 1400 °c	%	-0.60
Max. Service Temp.	°c	1400
Refractoriness	°c	1540
Storage Limit	months	12

Refractory Castable

AZARCAST-70

Raw Material Base

Fireclay,Bauxite

ISO:WIN-41093-E

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Application Method

Casting, Vibrating

CHEMICAL ANALYSIS

AL2O3	%	Min 70
Fe2O3	%	Max 2
CaO	%	Max 6.50

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm ³	Min 2.40
Mixing Liquid(water)	%	8-10
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm ²	Min 450
after firing at 1000 °c	Kg/cm ²	Min 200
after firing at 1450 °c	Kg/cm ²	Min 450
Permanent Linear Change		
at 1450 °c		- 1.20
Max. Service Temp.	°c	1450
Refractoriness	°c	1580
Storage Limit	months	12

Refractory Castable

AZARCAST-80

Raw Material Base

Bauxite

Application Method

Casting, Vibrating

ISO: WIN-41093-E

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CHEMICAL ANALYSIS

AL2O3	%	Min 80
Fe2O3	%	Max 2
CaO	%	Max 6.50

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm3	Min 2.45
Mixing Liquid(water)	%	8-10
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm2	Min 400
after firing at 1000 °c	Kg/cm2	Min 250
after firing at 1500 °c	Kg/cm2	Min 450
Permanent Linear Change		
at 1500 °c		-1.00
Max. Service Temp.	°c	1550
Refractoriness	°c	1650
Storage Limit	months	12

Refractory Castable

AZARCAST-85

Raw Material Base
Application Method

Bauxite
Casting, Vibrating

ISO:WIN-41093-E

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CHEMICAL ANALYSIS

AL2O3	%	Min 85
Fe2O3	%	Max 2
CaO	%	Max 6.50

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm ³	Min 2.40
Mixing Liquid(water)	%	8-10
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm ²	Min 400
after firing at 1000 °c	Kg/cm ²	Min 250
after firing at 1500 °c	Kg/cm ²	Min 450
Permanent Linear Change		
at 1500 °c	%	-0.80
Max. Service Temp.	°c	1600
Refractoriness	°c	1690
Storage Limit	months	12

Refractory Castable

AZARCAST-90

Raw Material Base
Application Method

Bauxite, Tabular Alumina
Casting, Vibrating

ISO: WIN-41093-E

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CHEMICAL ANALYSIS

AL2O3	%	Min 90
Fe2O3	%	Max 1
CaO	%	Max 5.50

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm ³	Min 2.60
Mixing Liquid(water)	%	7-9
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm ²	Min 400
after firing at 1000 °c	Kg/cm ²	Min 250
after firing at 1500 °c	Kg/cm ²	Min 450
Permanent Linear Change		
at 1550 °c	%	- 0.50
Max. Service Temp.	°c	1750
Refractoriness	°c	1850
Storage Limit	months	12

Refractory Castable

AZARCAST-94S

Raw Material Base
Application Method

Tabular Alumina
Casting, Vibrating

ISO: WIN-41093-E

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CHEMICAL ANALYSIS

AL2O3	%	Min 92
Fe2O3	%	Max 0.50
CaO	%	Max 5

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm ³	Min 2.70
Mixing Liquid (water)	%	7-9
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm ²	Min 500
after firing at 1000 °c	Kg/cm ²	Min 300
after firing at 1500 °c	Kg/cm ²	Min 600
Permanent Linear Change		
at 1550 °c	%	- 0.50
Max. Service Temp.	°c	1800
Refractoriness	°c	1900
Storage Limit	months	12

Refractory Castable

AZARCAST-40LCC

**Raw Material Base
Application Method**

**Fireclay
Casting, Vibrating**

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CHEMICAL ANALYSIS

AL2O3	%	Min 43
Fe2O3	%	Max 2.5
CaO	%	Max 3.0

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm3	Min 2.35
Apparent Porosity	%	17
Mixing Liquid(water)	%	5.5-6.5
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm2	Min 500
after firing at 1000 °c	Kg/cm2	Min 600
after firing at 1400 °c	Kg/cm2	Min 750
Permanent Linear Change		
at 1400 °c	%	±0.5
Max. Service Temp.	°c	1400
Storage Limit	months	3

Refractory Castable

AZARCAST-60LCC

Raw Material Base
Application Method

Andalusite
Casting, Vibrating

CHEMICAL ANALYSIS

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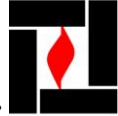
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AL2O3	%	Min 60
Fe2O3	%	Max 1.50
CaO	%	Max 3.00

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm3	Min 2.3
Mixing Liquid(water)	%	5.5-6.5
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm2	Min 500
after firing at 1000 °c	Kg/cm2	Min 550
after firing at 1400 °c	Kg/cm2	Min 700
Permanent Linear Change		
at 1400 °c	%	±0.80
Max. Service Temp.	°c	1500
Refractoriness	°c	1600
Storage Limit	months	3

Refractory Castable

AZARCAST-70LCC

Raw Material Base
Application Method

Fireclay,Bauxite
Casting, Vibrating

CHEMICAL ANALYSIS

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Azar Refractories Co.



AL2O3	%	Min 70
Fe2O3	%	Max 2.00
CaO	%	Max 3.00

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm ³	Min 2.35
Mixing Liquid(water)	%	5.5-6.5
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm ²	Min 500
after firing at 1000 °c	Kg/cm ²	Min 550
after firing at 1400 °c	Kg/cm ²	Min 750
Permanent Linear Change		
at 1400 °c	%	±0.50
Max. Service Temp.	°c	1550
Refractoriness	°c	1650
Storage Limit	months	3

Refractory Castable

AZARCAST-80LCC

Raw Material Base
Application Method

Bauxite
Casting, Vibrating

CHEMICAL ANALYSIS

AL2O3	%	Min 80
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Fe2O3	%	Max 2
CaO	%	Max 3

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm ³	Min 2.40
Mixing Liquid(water)	%	5.5-6.5
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm ²	Min 500
after drying at 1000 °c	Kg/cm ²	Min 600
after firing at 1500 °c	Kg/cm ²	Min 800
Permanent Linear Change		
at 1500 °c		±0.3
Max. Service Temp.	°c	1600
Refractoriness	°c	1700
Storage Limit	months	3

Refractory Castable

AZARCAST-90LCC

Raw Material Base
Application Method

Bauxite
Casting, Vibrating

CHEMICAL ANALYSIS

AL2O3	%	Min 90
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PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm ³	Min 3.00
Mixing Liquid(water)	%	5.5-6.5
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm ²	Min 700
after firing at 400°c	Kg/cm ²	Min 700
after firing at 600 °c	Kg/cm ²	Min 800
after firing at 1200 °c	Kg/cm ²	Min 800
Permanent Linear Change		
at 1200 °c	%	-0.10
at 1500 °c	%	-0.50
Max. Service Temp.	°c	1800
Storage Limit	months	3

Dolomite Bricks & Mixes

ISO: WIN-41093-E

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Pitch-Bonded Dolomite Brick

AZAR – D40PC

CHEMICAL ANALYSIS

MgO	%	Min	38
CaO	%	Min	53

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Fe2O3	%	Max 1.50
SiO2	%	Max 1
AL2O3	%	Max 1

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm3	Min 2.90
Apparent Porosity (Po.)	Vol-%	Max 6.50
Cold Crushing Strength at 20 °c (c.c.s)	Kg/cm2	Min 150
Total Carbon	%	Min 4
Residual Carbon (after firing at 1000 °c)	%	Min 1.50
Storage Limit	days	15

Pitch-Bonded Dolomite Brick

AZAR – D40PT

CHEMICAL ANALYSIS

MgO	%	Min 38
CaO	%	Min 53
Fe2O3	%	Max 1.50

ISO: WIN-41093-E

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SiO₂	%	Max	1
AL₂O₃	%	Max	1

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm ³	Min	2.85
Apparent Porosity (Po.)	Vol-%	Max	8
Cold Crushing Strength at 20 °c (c.c.s)	Kg/cm ²	Min	200
Total Carbon	%		4-6
Residual Carbon (after firing at 1000 °c)	%		2-4
Storage Limit	days		45

Dolomite Mix

AZARDOC-3

Raw Material Base
Application Method

Sintered Dolomite
Ramming

CHEMICAL ANALYSIS

MgO	%	Min	38
CaO	%	Min	55
Fe₂O₃	%	Max	1.50

ISO: WIN-41093-E

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Azar Refractories Co.



SiO₂ % **Max 1.50**

PHYSICAL PROPERTIES

Grain Size mm **0-3**
Bulk Density (Db.) g/cm³ **Min 2.80**
Temperature Limit of Application °C **1800**
Storage Limit days **15**

Dolomite Mix

AZARDOC-5

Raw Material Base
Application Method

Sintered Dolomite
Ramming

CHEMICAL ANALYSIS

MgO % **Min 38**
CaO % **Min 55**
Fe₂O₃ % **Max 1.50**
SiO₂ % **Max 1.50**

ISO: WIN-41093-E

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PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm ³	Min 2.85
Temperature Limit of Application	°C	1800
Storage Limit	days	15

Mag Dol Mix

AZAR MAG DOL- 5

Raw Material Base
Application Method

Magnesia-Doloma
Ramming

CHEMICAL ANALYSIS

MgO	%	Min 60
CaO	%	Max 30
Fe₂O₃	%	Min 1.50

ISO: WIN-41093-E

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PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm ³	Min 3.0
Temperature Limit of Application	°C	1700
Storage limit	months	3

Calcined Dolomite

AZAR CD-50

Raw Material Base
Application Method

Calcined Dolomite
Ready to Use

CHEMICAL ANALYSIS

MgO	%	Min 38
CaO	%	Min 55
Fe₂O₃	%	Max 2
SiO₂	%	Max 2.0

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**PHYSICAL PROPERTIES**

Grain Size	mm	5-50(-5mm<10%)
Temperature Limit of Application	°C	1800
Storage Limit	days	7

Tap Hole Mass**AZAR DB-10****Raw Material Base
Application Method****Sintered Dolomite
Ready to Use****CHEMICAL ANALYSIS**

MgO	%	Min 38
CaO	%	Min 55
Fe2O3	%	Max 2
SiO2	%	Max 1.50

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PHYSICAL PROPERTIES

Grain Size	mm	3-10
Temperature Limit of Application	°C	1800
Storage Limit	days	20

Magnesia Based Bricks & Mortars

ISO: WIN-41093-E

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Magnesite Brick

AZARMAG-92

CHEMICAL ANALYSIS

MgO	%	Min	91
Al₂O₃	%	Max	1
Fe₂O₃	%	Max	2
CaO	%	Max	3.50
SiO₂	%	Max	2.50

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PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm ³	Min 2.85
Apparent Porosity (Po.)	Vol-%	16-20
Cold Crushing Strength(c.c.s)	Kg/cm ²	Min 400

Magnesite Brick

AZARMAG-95

CHEMICAL ANALYSIS

MgO	%	Min 95
Al₂O₃	%	Max 1
Fe₂O₃	%	Max 1.50
CaO	%	Max 2
SiO₂	%	Max 1

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**PHYSICAL PROPERTIES**

Bulk Density (Db.)	g/cm ³	Min 2.90
Apparent Porosity (Po.)	Vol-%	14-18
Cold Crushing Strength(c.c.s)	Kg/cm ²	Min 500

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Magnesite Brick

AZARMAG-97E

CHEMICAL ANALYSIS

MgO	%	Min 97
Al₂O₃	%	Max 0.3
Fe₂O₃	%	Max 0.6
CaO	%	Max 1.5
SiO₂	%	Max 0.6

PHYSICAL PROPERTIES

Refractoriness	sk	40
Bulk Density (Db.)	g/cm ³	Min 2.95-3
Apparent Porosity (Po.)	Vol-%	16-18
Cold Crushing Strength(c.c.s)	Kg/cm ²	Min 600-700

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Magnesia Chrome Brick

AZAR-MC80

Raw Material Base

Magnesia, Chromite

CHEMICAL ANALYSIS

MgO	%	Min 76
Cr2O3	%	Max 7.50
SiO2	%	Max 1.50
Al2O3	%	Max 3.50
Fe2O3	%	Max 5.50
CaO	%	Max 1.80

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm3	Min 2.80
Apparent Porosity (Po.)	Vol-%	16-20
Cold Crushing Strength(c.c.s)	Kg/cm2	400-600
Refractoriness	°C	1900
RUL(T 0.5)	°C	1500

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Magnesia Chrome Brick

AZAR-MC80 F

Raw Material Base

Magnesia, Chromite

CHEMICAL ANALYSIS

MgO	%	Min 80
Cr2O3	%	Max 4.50
SiO2	%	Max 1.50
Al2O3	%	Max 4
Fe2O3	%	Max 7.5
CaO	%	Max 2.5

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm3	Min 2.90
Apparent Porosity (Po.)	Vol-%	Max 22
Cold Crushing Strength(c.c.s)	Kg/cm2	400-600
Refractoriness	°C	1900
RUL(T 0.5)	°C	Min 1550
HMOR	Kg/cm2	Min 80

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Magnesia Chrome Brick

AZAR-MC83**Raw Material Base****Magnesia, Chromite**

CHEMICAL ANALYSIS

MgO	%	Min	78
Cr2O3	%	Max	7.50
SiO2	%	Max	1.60
Al2O3	%	Max	3.50
Fe2O3	%	Max	4.50
CaO	%	Max	1.60

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm3	Min	2.85
Apparent Porosity (Po.)	Vol-%		16-20
Cold Crushing Strength(c.c.s)	Kg/cm2		400-600
Refractoriness	°C		1900
RUL(T 0.5)	°C		1500

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Magnesia Spinel Brick

AZAR-MA80**Raw Material Base****Spinel, Dead Burned Magnesia**

CHEMICAL ANALYSIS

MgO	%	Min	80.0
Cr2O3	%		0.00
SiO2	%	Max	1
Al2O3	%	Max	13.0
Fe2O3	%	Max	0.70
CaO	%	Max	1.50

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm ³		2.80-2.90
Apparent Porosity (Po.)	Vol-%		16-19
Cold Crushing Strength(c.c.s)	Kg/cm ²	Min	500-700
Refractoriness	°C		1700
RUL(T 0.5)	°C		1650

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Magnesia Spinel Brick

AZAR-MA85

Raw Material Base

Spinel, Dead Burned Magnesia

CHEMICAL ANALYSIS

MgO	%	Min 85.0
Cr2O3	%	0.00
SiO2	%	Max 1
Al2O3	%	Max 10.0
Fe2O3	%	Max 1
CaO	%	Max 1.50

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm ³	2.80-2.90
Apparent Porosity (Po.)	Vol-%	16-19
Cold Crushing Strength(c.c.s)	Kg/cm ²	Min 500-700
Refractoriness	°C	Min 1900
RUL(T 0.5)	°C	Min 1650

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Magnesia Based Slide Gate

AZARMAG-SGP

**Raw Material Base
Type of Bonding**

**Sintered Magnesia
Silicate**

CHEMICAL ANALYSIS

MgO	%	86
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PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm ³	Min 2.95
Apparent Porosity (Po.)	Vol-%	Max 10
Cold Crushing Strength(c.c.s)	Kg/cm ²	Min 500
Residual Carbon	%	2-4

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Magnesia Based Slide Gate

AZARMAG-SGN

Raw Material Base
Type of Bonding

Sintered Magnesia
Silicate

CHEMICAL ANALYSIS

MgO	%	86
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PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm3	Min 2.90
Apparent Porosity (Po.)	Vol-%	Max 10
Cold Crushing Strength(c.c.s)	Kg/cm2	Min 450
Residual Carbon	%	2-4

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Magnesia Gunning Mix

AZARGUN-80

Application Method
Mix Type
Type of Bonding

Gunning
Hot Gunning Mix
Chemical, Ceramic

CHEMICAL ANALYSIS

MgO	%	Min	80
Fe2O3	%	Min	1.5
SiO2	%	Max	7

PHYSICAL PROPERTIES

Grain Size	mm	0-3
Temperature Limit of Application	°C	1600
Storage Limit	months	6

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Magnesia Gunning Mix

AZARGUN-85

Application Method
Mix Type
Type of Bonding

Gunning
Hot Gunning Mix
Chemical, Ceramic

CHEMICAL ANALYSIS

MgO	%	Min 85
Fe₂O₃	%	Min 1.5
SiO₂	%	Max 7

PHYSICAL PROPERTIES

Grain Size	mm	0-3
Temperature Limit of Application	°C	1650
Storage Limit	months	6

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Magnesia Ramming & Casting Mix

AZARMAG-90S**Application Method**
Type of Bonding**Ramming , Casting**
Chemical,Ceramic

CHEMICAL ANALYSIS

MgO	%	Min	90
Fe2O3	%	Max	1.50

PHYSICAL PROPERTIES

Grain Size	mm	0-3
Temperature Limit of Application	°C	1670
Storage Limit	months	6

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Magnesia Ramming Mix

AZARRAM-90**Application Method**
Type of Bonding**Ramming**
Chemical, Ceramic

CHEMICAL ANALYSIS

MgO	%	Min 90
Fe2O3	%	Max 2

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Temperature Limit of Application	°C	1680
Storage Limit	months	6

ISO: WIN-41093-E

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Magnesia Mortar

AZARMAGMOR

CHEMICAL ANALYSIS

MgO	%	Min 85
CaO	%	Max 2
SiO₂	%	Max 3

PHYSICAL PROPERTIES

Grain Size	mm	0-0.40
Temperature Limit of Application	°C	1750
Storage Limit	months	12

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Magnesia Coating Mix

AZARCOAT-H.Q.S

Raw Material Base
Application Method

Magnesite
Troweling, Spraying

CHEMICAL ANALYSIS

MgO	%	Min 88
Fe₂O₃	%	Max 1.50
SiO₂	%	Max 3

PHYSICAL PROPERTIES

Grain Size	mm	0-1
Bulk Density (Db.)	g/cm ³	1.80-2.10
Apparent Porosity (Po.)	Vol-%	37-47
Temperature Limit of Application	°C	1700
Storage limit	months	6

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Magnesia Coating Mix

AZARCOAT-86T

Raw Material Base
Application Method

Magnesite
Troweling

CHEMICAL ANALYSIS

MgO	%	Min	84
Fe₂O₃	%	Max	2
SiO₂	%	Max	6

PHYSICAL PROPERTIES

Grain Size	mm	0-3
Bulk Density (Db.)	g/cm ³	1.80-2.10
Apparent Porosity (Po.)	Vol-%	37-47
Temperature Limit of Application	°C	1700
Storage limit	months	6

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Resin Bonded Magnesia-Carbon Brick

AZARMAGCARBON

Raw Material Base

Dead Burned Magnesia

CHEMICAL ANALYSIS

MgO	%	Min	96
Fe2O3	%	Max	1
CaO	%	Max	2

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm ³	Min	2.90
Apparent Porosity (Po.)	Vol-%	Max	7
Cold Crushing Strength(c.c.s)	Kg/cm ²	Min	350
Residual Carbon After Tempering	%	Min	4.50
C After Firing 2h at 1000 °C	%	Min	3

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Resin Bonded Magnesia-Carbon Brick

AZARMAGCARBON-F

Raw Material Base

Fused Magnesia

CHEMICAL ANALYSIS

MgO	%	Min	97
Fe2O3	%	Max	0.50
CaO	%	Max	1

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm3	Min	2.98
Apparent Porosity (Po.)	Vol-%	Max	7
Cold Crushing Strength(c.c.s)	Kg/cm2	Min	350
Residual Carbon After Tempering	%	Min	4.50
C After Coking 2h at 1000 °C	%	Min	3

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Resin Bonded Magnesia-Carbon Brick

AZARMAGGRAPHITE-97T

Raw Material Base

Dead Burned Magnesia

CHEMICAL ANALYSIS

MgO	%	Min 96
Fe2O3	%	Max 1
CaO	%	Max 2

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm3	Min 2.90
Apparent Porosity (Po.)	Vol-%	Max 7
Cold Crushing Strength(c.c.s)	Kg/cm2	Min 200
C After Coking 2h at 1000 °C	%	Min 9.50

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Resin Bonded Magnesia-Carbon Brick

AZARMAGGRAPHITE-97TT

Raw Material Base

Dead Burned Magnesia

CHEMICAL ANALYSIS

MgO	%	Min 96
Fe2O3	%	Max 1
CaO	%	Max 2

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm3	Min 2.90
Apparent Porosity (Po.)	Vol-%	Max 7
Cold Crushing Strength(c.c.s)	Kg/cm2	Min 200
C After Coking 2h at 1000 °C	%	Min 11.50

ISO: WIN-41093-E

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Resin Bonded Magnesia - Carbon Brick

AZARMAGGRAPHITE-F10

Raw Material Base

Fused Magnesia

CHEMICAL ANALYSIS

MgO	%	Min 97
Fe2O3	%	Max 0.50
CaO	%	Max 1

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm3	Min 2.98
Apparent Porosity (Po.)	Vol-%	Max 7
Cold Crushing Strength(c.c.s)	Kg/cm2	Min 200
C After Coking 2h at 1000 °C	%	Min 9.50

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Resin Bonded Magnesia - Carbon Brick

AZARMAGGRAPHITE-F12

Raw Material Base**Fused Magnesia**

CHEMICAL ANALYSIS

MgO	%	Min 97
Fe2O3	%	Max 0.50
CaO	%	Max 1

PHYSICAL PROPERTIES

Bulk Density (Db.)	g/cm ³	Min 2.98
Apparent Porosity (Po.)	Vol-%	Max 7
Cold Crushing Strength(c.c.s)	Kg/cm ²	Min 200
C After Coking 2h at 1000 °C	%	Min 11.50

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Ramming & Plastic Mixes

ISO: WIN-41093-E

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Ramming Mix

AZARPLAST-RW

Raw Material Base
Application Method
Type of Bonding

Fireclay, Quartzite
Ramming
Hydraulic

CHEMICAL ANALYSIS

Al₂O₃	%	Min 8
SiO₂	%	Min 30
L.O.I	%	43-50

PHYSICAL PROPERTIES

Grain Size	mm	0-3
Temperature Limit of Application	°C	1550
Storage Limit (at 20 °C)	days	15

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Ramming Mix

AZARPLAST-RRSIC10

Raw Material Base	Bauxite, Silicon Carbide
Application Method	Ramming
Type of Bonding	Carbon

CHEMICAL ANALYSIS

Al₂O₃	%	Min 40
SiO₂+SiC	%	Min 15
L.O.I	%	15-20

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Temperature Limit of Application	°C	1550
Cold Crushing Strength (c.c.s)		
at 200 °C	Kg/cm ²	Min 200
at 800 °C	Kg/cm ²	Min 150
Storage Limit (at 20 °C)	days	15

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Plastic Mix

AZARPLAST-IW

Raw material base
Application Method
Type of Bonding

Fireclay
Injection
Hydraulic

CHEMICAL ANALYSIS

Al2O3	%	Min 10
L.O.I	%	50-55

PHYSICAL PROPERTIES

Grain Size	mm	0-3
Temperature Limit of Application	°C	1550
Storage Limit (at 20 °C)	month	1

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Plastic Mix

AZARPLAST-IO SIC10

Raw Material Base
Application Method
Type of Bonding

Silicon Carbide, Quartzite
Injection
Carbon

CHEMICAL ANALYSIS

Al2O3	%	Min 8
SiO2+SiC	%	Min 35
L.O.I	%	30-35

PHYSICAL PROPERTIES

Grain Size	mm	0-3
Temperature Limit of Application	°C	1550
Cold Crushing Strength (c.c.s)		
	at 800 °C	8-55
Storage Limit (at 20 °C)	Kg/cm2 month	1

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Plastic Mix

AZARPLAST-TWCOT

Raw material base
Application Method
Type of Bonding

Fireclay
Trowelling
Carbon

CHEMICAL ANALYSIS

Al2O3	%	Min 22
L.O.I	%	30-35

PHYSICAL PROPERTIES

Grain Size	mm	0-3
Temperature Limit of Application	°C	1550
Storage Limit (at 20 °C)	month	1

ISO: WIN-41093-E

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Plastic Mix

AZARPLAST-RSIC10

Raw Material Base
Application Method
Type of Bonding

Bauxite,Silicon Carbide
Trowelling
Carbon

CHEMICAL ANALYSIS

Al₂O₃	%	Min 30
SiO₂+SiC	%	Min 12
L.O.I	%	30-35

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Temperature Limit of Application	°C	1550
Storage Limit (at 20 °C)	month	1

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Refractory Castable

AZARCAST- RSP-M

Raw Material Base
Application Method

Alumina, SiC
Casting, Vibrating

CHEMICAL ANALYSIS

AL2O3	%	Min 72
SiO2+SiC	%	Min 10

PHYSICAL PROPERTIES

Grain Size	mm	0-8
Bulk Density (Db.)	g/cm3	Min 2.65
Mixing Liquid(water)	%	6-7
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm2	≥200
after firing at 1500 °c	Kg/cm2	≥400
Permanent Linear Change		
at 1500 °c	%	±0.5
Max. Service Temp.	°c	1700
Refractoriness	°c	1800
Storage Limit	months	3

ISO: WIN-41093-E

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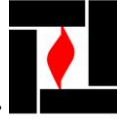
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Refractory Castable

AZARCAST- RSP-S

Raw Material Base
Application Method

Alumina,SiC
Casting, Vibrating

CHEMICAL ANALYSIS

AL2O3	%	Min 33
SiO2+SiC	%	Min 45

PHYSICAL PROPERTIES

Grain Size	mm	0-8
Bulk Density (Db.)	g/cm3	2.60
Mixing Liquid(water)	%	6-7
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm2	≥150
after firing at 1500 °c	Kg/cm2	≥400
Permanent Linear Change		
at 1500 °c	%	±0.5
Max. Service Temp.	°c	1700
Refractoriness	°c	1800
Storage Limit	months	3

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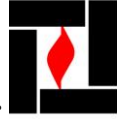
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Refractory Castable

AZARCAST- HACT – 160

Raw Material Base
Application Method

Bauxite,SiC
Casting, Vibrating

CHEMICAL ANALYSIS

AL2O3	%	Min 56
SiO2+SiC	%	Min 30

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Bulk Density (Db.)	g/cm ³	2.30
Mixing Liquid(water)	%	6-7
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm ²	≥150
after firing at 1500 °c	Kg/cm ²	≥250
Permanent Linear Change		
at 1500 °c	%	±0.5
Max. Service Temp.	°c	1600
Refractoriness	°c	1700
Storage Limit	months	3

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Refractory Castable

AZARCAST- CR- S10

**Raw Material Base
Application Method**

**Alumina,SiC
Casting, Vibrating**

CHEMICAL ANALYSIS

AL2O3	%	Min 55
SiO2+SiC	%	Min 20

PHYSICAL PROPERTIES

Grain Size	mm	0-8
Bulk Density (Db.)	g/cm ³	2.65
Mixing Liquid(water)	%	5-6
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm ²	≥250
after firing at 1500 °c	Kg/cm ²	≥400
Permanent Linear Change		
at 1500 °c	%	±0.3
Max. Service Temp.	°c	1700
Refractoriness	°c	1800
Storage Limit	months	3

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Refractory Stamp Mass

AZAR CO- 210

Raw Material Base
Application Method

Alumina,SiC
Stamping

CHEMICAL ANALYSIS

AL2O3	%	Min 19
SiO2+SiC	%	Min 35

PHYSICAL PROPERTIES

Grain Size	mm	0-8
Bulk Density (Db.)	g/cm3	2.15
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm2	≥100
after firing at 1500 °c	Kg/cm2	≥150
Temperature Limit of Application	°c	1550
Storage Limit	month	1

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Refractory Stamp Mass

AZAR- RP- 210

Raw Material Base
Application Method

Alumina, SiC
Stamping

CHEMICAL ANALYSIS

AL2O3	%	Min 19
SiO2+SiC	%	Min 45

PHYSICAL PROPERTIES

Grain Size	mm	0-8
Bulk Density (Db.)	g/cm3	Min 2.15
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm2	≥100
after firing at 1500 °c	Kg/cm2	≥150
Temperature Limit of Application	°c	1550
Storage Limit	month	1

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Refractory Stamp Mass

AZAR AN- 210

Raw Material Base

**Alumina,SiC
Stamping**

Application Method

CHEMICAL ANALYSIS

AL2O3	%	Min 42
SiO2+SiC	%	Min 34

PHYSICAL PROPERTIES

Grain Size	mm	0-8
Bulk Density (Db.)	g/cm ³	2.40
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm ²	≥100
after firing at 1500 °c	Kg/cm ²	≥300
Temperature Limit of Application	°c	1650
Storage Limit	month	1

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Refractory Stamp Mass

AZAR TEM-160- 4T

Raw Material Base

**Bauxite,SiC
Stamping**

Application Method

CHEMICAL ANALYSIS

AL2O3	%	Min 30
SiO2+SiC	%	Min 32

PHYSICAL PROPERTIES

Grain Size	mm	0-8
Bulk Density (Db.)	g/cm3	Min 2.35
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm2	≥150
after firing at 1500 °c	Kg/cm2	≥250
Temperature Limit of Application	°c	1650
Storage Limit	month	1

ISO:WIN-41093-E

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Refractory Gunning

AZAR RGM- 20

Raw Material Base

**Bauxite, SiC
Gunning**

Application Method

CHEMICAL ANALYSIS

AL2O3	%	Min 55
SiO2+SiC	%	Min 27

PHYSICAL PROPERTIES

Grain Size	mm	0-3
Bulk Density (Db.)	g/cm3	2.30
Mixing Liquid(water)	%	11-14
Cold Crushing Strength(c.c.s)		
after drying at 110 °c	Kg/cm2	≥60
after firing at 1500 °c	Kg/cm2	≥150
Temperature Limit of Application	°c	1600
Storage Limit	months	6

ISO: WIN-41093-E

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Ramming Mixes

AZARPLAST-P70

Raw Material Base
Application
Type of Bond

Bauxite & Alumina
Ramming
Chemical

CHEMICAL ANALYSIS

Al₂O₃	%	70-72
SiO₂	%	16/18
Fe₂O₃	%	2

PHYSICAL PROPERTIES

Grain Size	mm	0-5
Temperature Limit of Application	°C	1700
Cold Crushing Strength (c.c.s)		
	at 1000 °C	
	Kg/cm ²	200-300
Refractoriness	sk	20
Storage Limit	month	6

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