



Product Brochures

Wear Resistant Products

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SACAS
ISO 9001:2015

SACAS
ISO 14001:2015

SACAS
OHSAS 18001:2007

Wear Resistant Products

Products and services

Background of Delta Refractories

We supply the following services:

- Production of acid and basic monolithic refractories
- Design and development of own mixes in accordance with the client's needs
- Representation of a number of overseas and local suppliers
- An independent testing laboratory
- Turnkey project management
- Design and estimation, including CAD drawings
- Refractory consultation and arbitration

Our production facility:

- Is situated in Vereeniging, 60 km south of Johannesburg
- Has a capacity of ~1600 ton per month for single shift production
- Employs ~30 permanent staff

Products and services range:

- Ramming, gunning, plaster, pumpable, mortars and others.
- Dense and light weight castables (acid and basic)
- Special monolithics for continuous casting
- Special monolithic refractory materials on request
- Imported products:
 - Fusion cast refractories from Motim in Hungary.
 - Magnesia chrome, SiC, magnesia carbon, magnesia alumina carbon and others direct from Wonjin in Korea and China
- Installation services and supervision over product application are available
- Consultancy services with regards to process development in pyro-metallurgical industries

Product Range	Description
Delta Cast [®]	LCC, ULCC and NCC range 1300 to 2000 OC
Delta Crete [®]	Conventional castable range 900 to 2000 OC
Delta Gun [®]	Acid and basic gunning, hot/cold, 1200 to 2000 OC
Delta Ram [®]	Acid and basic ramming for ladles and furnaces
Delta Plast [®]	Acid and basic plaster materials 1300 to 1800 OC
Delta Flow [®]	Free flow acid range 1300 to 2000 OC
Delta Fiber Crete [®]	Stainless steel fiber and ceramic matrix composite materials
Delta Floc [®]	Slag coagulant range
Delta Cover [®]	Ladle and tundish insulating cover materials
Delta Thermo Cover [®]	Range of refractory paints for protection of carbon containing refractories
Delta Chem [®]	A cement free chemically bonded range 1300 to 2000 OC
Delta Pump [®]	Range of pumpable materials 1300 to 2000 OC
Delta Set [®]	Acid and basic mortar ranges 1300 to 2000 OC
Delta Fill [®]	Ladle well filler and furnace taphole fillers
Delta Melt [®]	Slag viscosity modifiers

Delta Refractories (Pty) Ltd
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Product Information

These products all have the following important properties:

- High density for the raw materials employed in the make-up of the product
- High mechanical strength at room temperature and up to 1200°C
- High resistance to abrasion

Groups	Brand name	Remarks
Castables	Delta Cast [®] 202	Tabular alumina based
	Delta Cast [®] 208	Tabular and Fused alumina based
	Delta Cast [®] 217	Fused alumina based
	Delta Cast [®] 222	Fused alumina based
	Delta Cast [®] 427	Tab and SiC based
	Delta Cast [®] 430	Tab and SiC based
	Delta Cast [®] 453	Chamotte based
	Delta Cast [®] 517	SiC based
	Delta Cast [®] 802	Bauxite based
	Delta Cast [®] 803	Bauxite based
	Delta Cast [®] 804	Brown Fused Alumina based
	Delta Cast [®] 805	Brown Fused Alumina based
	Delta Cast [®] 806	White Fused Alumina based
	Delta Cast [®] 807	Fused silica based
	Delta Chem [®] 550	Tabular alumina and zirconia based
	Delta Crete [®] 511	Chamotte based
Gunning	Delta Gun [®] 802	Bauxite based
	Delta Gun [®] 803	Bauxite based
	Delta Gun [®] 804	Brown Fused Alumina based
	Delta Gun [®] 805	Brown Fused Alumina based
Plaster	Delta Plast [®] 217	Fused alumina based
	Delta Plast [®] 303	Brown Fused Alumina based
	Delta Plast [®] 453	Chamotte based
	Delta Plast [®] 802	Bauxite based
	Delta Plast [®] 803	Bauxite based
	Delta Plast [®] 804	Brown Fused Alumina
	Delta Plast [®] 805	White Fused Alumina

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Product datasheet for the Wear Resistant Products

Description	Remarks	Max temp °C	Max grain size mm	SiO ₂	Al ₂ O ₃	CaO + MgO	Fe ₂ O ₃ + TiO ₂	SiC	CCS Mpa 110C	BD g/cm ³
Delta Cast® 202	Tab alumina based	1800	>6	6.5	90.4	3.1	0.1		>150	3.00
Delta Cast® 208	Tab and Fused alumina	1800	6	~5	~92	1.6	0.2		>120	>3.15
Delta Cast® 217	Fused alumina	1400	6	10.0	>80	9.0			>150	>2.80
Delta Cast® 222	Fused alumina	1850	6		>85	<2.5			>80	>3.20
Delta Cast® 427	Tab and SiC	1600	3	7.0	30.0	7.7		55.0	>180	2.70
Delta Cast® 430	Tab and SiC	1600	3	6.3	41.5	5.9		46.0	>180	2.60
Delta Cast® 453	Chamotte	1550	6	43.0	52.0	2.3	1.6		>100	2.40
Delta Cast® 517	SiC	1600	3		23.0	4.8		72.0	>135	2.70
Delta Cast® 802	Bauxite	1200	3	10.0	78.3	7.7	3.9		>130	2.75
Delta Cast® 803	Bauxite	1200	3	10.0	74.0	12.5	3.9		>130	2.70
Delta Cast® 804	BFA	1200	3	6.0	85.0	7.5	1.0		>130	2.80
Delta Cast® 805	BFA	1200	3	6.0	80.0	12.4	1.0		>130	2.75
Delta Cast® 806	WFA	1200	3	10.0	82.0	9.0			>130	2.80
Delta Cast® 807	Fused silica	1200	6	75.0	18.0	7.0			>140	2.00
Delta Chem® 550	Bauxite	1550	6	55.0	43.0		1.9		>50	2.20
Delta Crete® 511	Chamotte	1500	3	44.0	64.0	7.6	1.8		>80	2.20
Delta Gun® 802	Bauxite	1200	3	11.0	75.0	10.0	3.4		>130	2.75
Delta Gun® 803	Bauxite	1200	3	11.0	68.0	17.0	3.4		>100	2.60
Delta Gun® 804	BFA	1200	3	8.0	80.0	10.0	1.0		>130	2.75
Delta Gun® 805	BFA	1200	3	8.0	73.0	17.0	1.0		>130	2.75
Delta Plast® 217	Fused alumina	1400	3	7.0	>80	9.0			>190	2.80
Delta Plast® 303	BFA	1250	3	<10	>80	<10	1.0		>130	>2.8
Delta Plast® 453	Chamotte	1300	5	46.4	43.0	8.0			>85	1.80
Delta Plast® 802	Bauxite	1200	3	10.0	78.3	7.7	3.9		>130	2.75
Delta Plast® 803	Bauxite	1200	3	11.0	68.0	17.0	3.4		>100	2.60
Delta Plast® 804	BFA	1200	3	8.0	80.0	10.0	1.0		>130	2.75
Delta Plast® 805	WFA	1200	3	8.0	73.0	17.0	1.0		>130	2.75

Legend:

WFA White Fused Alumina
BFA Brown Fused Alumina