

Premium Alumina Technical Data Sheet



HICTECH® premium alumina products are manufactured with high purity ultra-fine powders, using the most advanced technologies and international best practice. HIC Services' manufacturing facility has ISO9001:2008 accreditation, which integrates research, design and manufacturing to produce the highest quality products in the market. **HICTECH®** premium alumina tiles provide excellent impact and wear resistant characteristics for extra longevity in the harshest applications.

Features
Superior sliding abrasion resistance
Impact abrasion resistance
Corrosion resistance
Industry proven/leader
Exceptional hardness & durability
ISO Pressed Shapes

Applications
Mineral processing (e.g. Coal, rock, gravel & sand)
Pipes, bends, elbows, transfer chutes
DM Cyclones & Hydro-Cyclones
Wear Plate Systems (WPS)
Tiles & Pre-Engineered tile sets
Slurry applications

Physical Properties

Item	Unit	Measurement	Measurement
Colour		white	white
Nominal Al ₂ O ₃	%	92	95
Density	gcm ³	3.6	3.7
Hardness (Vickers)	HV20	1015	1150
Maximum use temperature	°C	1350	1400
Fracture Toughness K _{Ic}	MPam ^{-1/2}	3-4	3-4
Grain Size			
<ul style="list-style-type: none"> Mean lineal intercept length 	micrometres	0.00317	0.00277
<ul style="list-style-type: none"> ASTM Number 	G	13.3	13.7
Flexural Strength at 20°C	MOR	250	300

HIC Services are the leaders in wear prevention technologies, providing specialised products and services since 1978



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