

## Product Description

A bauxite based, coarse grained, low cement castable specifically developed for aluminium contact applications. Due to a specific anti-wetting additive Albond HS LS has an excellent resistance to Aluminum melt abrasion avoiding any calcium oxide transfer to the melt and preventing any corundum growth on the refractory surface. Albond HS LS has an enhanced strength profile with an high thermal shock resistance.

Properties	Albond HSLs
Region of Manufacture	Europe
Bond Type	Hydraulic
Method of application	Cast
Maximum Service Temperature, °C (°F)	1400 (2550)
Estimated weight of dry material/ m <sup>3</sup> of construction, kg (lb)	2980 (186)
Water addition, % by weight	4.7-5.2
Maximum grain size, mm	8
Packaging in bags, kg (lb)	25 (55)

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Density, kg/m <sup>3</sup> (pcf), ASTM C134	
oven dried, 110°C (230°F)	2873 (179.3)
Cold crushing strength, MPa (psi), ASTM C133	
oven dried, 110°C (230°F)	110-130 (15950-18850)
after 5 hours firing, 1000°C (1832°F)	120-160 (17400-23200)
Permanent linear change, %, ASTM C113	
after 5 hours, 1000°C (1832°F)	-0.25
after 5 hours, 1400°C (2550°F)	0.7
Thermal conductivity, W/m·k (BTU·in./hr·ft <sup>2</sup> ·°F), ASTM C201/417	
600°C (1112°F)	2.3 (15.96)
Chemical composition, %	
Alumina, Al <sub>2</sub> O <sub>3</sub>	81
Silica, SiO <sub>2</sub>	11.5
Ferric oxide, Fe <sub>2</sub> O <sub>3</sub>	1.2
Calcium oxide, CaO	2.8

### Storage and Shelf Life

- Should be stored in dry conditions, unopened packaging on pallets. Do not store on ground. Keep out of rain and damp conditions.
- Shelf life is of twelve months with original packaging, double shrink film and dehydrating agent provided if the monolithic is stored under these recommended conditions.

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