



ALMATIS

PREMIUM ALUMINA



Global Product Data

AFL Aluminas

Product	AFL 1	AFL 13
Chemical Analysis [%]	typical	typical
Al ₂ O ₃	87 - 89	≤ 99
Na ₂ O	≤ 0.30	≤ 0.30
Fe ₂ O ₃	≤ 0.07	≤ 0.05
SiO ₂	≤ 0.12	≤ 0.12
MgO	10 - 12	≤ 0.30
CaO	≤ 0.30	≤ 0.08
Mineralogical composition		
α-Alumina	xxx	xxx
Spinel	xxx	–
Periclase	–	–
Grain size distribution		
> 1.0 mm	≤ 1	≤ 1
< 0.250 mm	55 - 60	80 - 85
Surface Area BET [m ² /g]	1.0 - 2.0	1.0 - 2.0

All data are based upon Almatris standard test methods.
The typical properties are based upon the actual averages from production data.

Think alumina, think Almatris.



AFL-Aluminas

The Almatis AFL Aluminas are specifically designed as the main component in the formulation of a fine, free flowing infiltration castable, for use in the InfilCast® system. Their fine particle size distribution, of up to 1 mm, allows optimised infiltration flow to fill the voids between the coarse Tabular T-60 or Magnesium Aluminate Spinel AR-90 aggregates. The different mineral composition of the various AFL Aluminas enable the development of a matrix system with high refractoriness and corrosion resistance to meet the individual requirements of high performance refractory products. For the specially formulated fine infiltration castable products, the AFL Aluminas are used together with Calcium Aluminate Cement, ie. CA-270 as the binder, and the Almatis Dispersing Aluminas ADS 1, ADS 3 and ADW 1. This combination of raw materials provides optimum castable dispersion with reduced water demand. Also setting times can be adjusted according to the specific placement requirements and climatic conditions.



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