



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 Almatis standard test methods.

The typical properties are based upon the actual averages from production data.

Think alumina, think Almatis.



AFL-Aluminas

The Almatís 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 Almatís 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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