



Global Product Data

Dispersing Aluminas

| Product | ADS 1 | ADS 3 | ADW 1 | M-ADS 1 | M-ADW 1 |
|-------------------------------------|-----------------|---------|---------|------------------|---------|
| Chemical | | | | | |
| Composition [%] | typical | typical | typical | typical | typical |
| Al₂O₃ | 80 | 76 | 80 | 91 | 96 |
| Na₂O | 0.10 | 0.10 | 0.10 | 1.40 | 0.10 |
| B₂O₃ | 0.80 | 2.80 | 0.03 | 1.30 | 0.55 |
| CaO | 1.80 | 1.80 | 1.80 | 0.02 | 0.02 |
| L.O.I. at 1050 °C | 18.0 | 20.0 | 18.0 | 7.0 | 2.7 |
| Physical Properties | | | | | |
| Particle size D50 Cilas [µm] | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| Particle size D90 Cilas [µm] | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| | MSDS 974 | | | MSDS 1036 | |

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

Our Dispersing Aluminas fulfil two main functions in castables

1. Full dispersion of the castable for reduced water demand and optimized flow properties
2. Adjustment of flow and setting times according to specific placement requirements and climatic conditions

There are two different product lines of Dispersing Aluminas available for individual castable concepts:

1. ADS 1, ADS 3 and ADW 1 for **high performance silica-free** castables using Tabular Alumina fines and Spinel fines, Reactive Aluminas, CA-270 or CA-14 W,M or S cement in the matrix

ADS 1: Dispersing and Retarding Alumina

ADS 3: Dispersing and strong Retarding Alumina

ADW 1: Dispersing and Accelerating Alumina

Recommended additions are 1% in total, admixtures determine working time.



2. M-ADS 1 and M-ADW 1 for **silica-containing castables** using Tabular Alumina fines, Reactive Aluminas, Microsilica and CA-270 or CA-14 W, M or S cement in the matrix.

M-ADS 1: Dispersing and Retarding Alumina

M-ADW 1: Dispersing and Accelerating Alumina

Recommended additions are 1% in total for LC-castables and 0.7 % for ULC-castables, admixtures determine working time.



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