

## Dispersing Aluminas

		ADS 1	ADS 3	ADW 1	M-ADS 1	M-ADS 3	M-ADW 1
Chemical Composition	Unit	Typical	Typical	Typical	Typical	Typical	Typical
Al <sub>2</sub> O <sub>3</sub>	[%]	80	76	80	91	95	96
Na <sub>2</sub> O	[%]	0.10	0.10	0.10	1.40	1.40	0.10
B <sub>2</sub> O <sub>3</sub>	[%]	0.80	2.80	0.03	1.30	2.50	0.55
CaO	[%]	1.80	1.80	1.80	0.02	0.02	0.02
L.O.I. at 1050°C	[%]	18.0	20.0	18.0	7.0	8.0	2.7
<b>Physical Properties</b>							
Particle Size D50*	[µm]	2.5	2.5	2.5	2.5	2.5	2.5
Particle Size D90*	[µm]	9.0	9.0	9.0	9.0	9.0	9.0
Self-Flow F10** [cm]		Min	Min	Min	Min	Min	Min
	[cm]	20.0	17.0	20.0	20.0	20.0	20.0
		SDS 974				SDS 1036	

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

All data are based upon Almatris standard test methods. All test methods are available upon request.

\*Laser granulometry Bettersizer S3 Almatris global standard.

\*\* Flow F 10 for ADS 1, ADS 3 and ADW 1 is measured in Self-Flow castable SFL 204

Flow F10 for M-ADS 1, M-ADS 3 and M-ADW 1 is measured in Self-Flow castable SFL-SMS-46-270

# Global Almatis Aluminas for Refractories Applications

## Product Description

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:

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.

\*\* Flow F 10 for ADS 1, ADS 3 and ADW 1 is measured in Self-Flow castable SFL 204

M-ADS 1, M-ADS 3 and M-ADW 1 for silica-containing castables using Tabular Alumina fines, Reactive Aluminas, Silica Fume and CA-270 or CA-14 W, M or S cement in the matrix.

- M-ADS 1: Dispersing and Retarding Alumina
- M-ADS 3: Dispersing and strong Retarding Alumina
- M-ADW 1: Dispersing and Accelerating Alumina

Recommended additions are 1% in total for low cement-castables and 0.7 % for ultra-low cement-castables, admixtures determine working time.

\*\*Flow F 10 is measured in Self-Flow castable SFL-SMS-46-270

### Standard Packaging

- 25 kg paper bags

### Shelf life

Stored under adequate dry conditions, the properties of all Almatis Dispersing Aluminas remain stable for a period of 12 months. Experiences have shown that even after longer storage time the properties are not impaired.

## Contact for sales, technical information and application assistance

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**SDS 974/1036**