



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
Al ₂ O ₃	80	76	80	91	96
Na ₂ O	0.10	0.10	0.10	1.40	0.10
B ₂ O ₃	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.



Contacts for sales, technical information and application assistance

Almatis GmbH

Giulinistrasse 2
67065 Ludwigshafen
Germany

Phone
49 621 5707 0
Fax
49 621 5707 130

Almatis B.V.

Theemsweg 30
3197KM Botlek RT
The Netherlands

Phone
31 181 2701 00
Fax
31 181 2178 53

Almatis, Inc.

501 West Park Road
Leetsdale, PA 15056, USA
General Phone
800 643 8771

Phone
1 412 630 2800
Fax
1 412 630 2900

Qingdao Almatis Co., Ltd.

F15, Sunshine Tower
61 Hongkong Middle Road
Qingdao, 266071
P.R. China

Phone
86 532 8572 8035
Fax
86 532 8572 8551

Qingdao Almatis Trading Co., Ltd.

Room 1807, Eton Place
69 Dong Fang Road
Shanghai, 200120
P.R. China

Phone
86 21 5879 4987
Fax
86 21 5879 6502

Qingdao Almatis Co., Ltd.

4W-W-# 9 building
Jiming Blocks, Kaifaque
Kaifeng, Henan
P.R. China

Phone
86 378 3850 485
Fax
86 378 3850 485



Headquarters

Almatis GmbH
Lyoner Straße 9
60528 Frankfurt/Germany

Phone **49 69 957 341 0**
Fax **49 69 957 341 13**

info@almatis.com
www.almatis.com

Almatis Alumina Private Limited

Kankaria Estate
2nd Floor
6, Little Russell Street
Calcutta 700-071, India

Phone
91 33 2289 4694
Fax
91 33 2289 4693

Almatis Limited

Morimura Bldg.
1-3-1 Toranomon
Minato-ku, Tokyo 105-8451
Japan

Phone
81 3 3502 2371
Fax
81 3 3502 2375

MSDS 974
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