



ADVANCED MATERIALS

Martoxid[®] Aluminum Oxides

Calcined Aluminas for
Polishing and Grinding Applications

Advanced solutions
from lapping to high
gloss surface finishing



High performance

When looking for a high performing and reliable hard or soft abrasive agent to handle your most challenging polishing and grinding industrial applications, look no further than the broad line-up of Martoxid® calcined aluminas from **Huber Advanced Materials**.

With a Mohs hardness of 9, aluminum oxide is used in many polishing agents for industrial and consumer uses. Our aluminum oxides vary in friability, surface area, degree of calcination and particle size distribution, because polishing performance differs depending on the substrate. Example surfaces include soft metals, hard metals, painted surfaces, plastics and silicon wafers.

With the extensive product line also comes decades of experience. Let Huber Advanced Material's experts help you to select the right alumina for your specific requirements.

Our **Martoxid® calcined alumina** product portfolio begins with the extremely hard calcined **Martoxid® DN** grades, a series of high performing grinding agents used primarily for the first step in smoothing glass, silicon wafers, crystal surfaces and marble.

For polishing of steel and non-ferrous metals and for grinding of paints and plastics, we recommend our **Martoxid® MZS** grades of intermediate preliminary polishing products.

For high gloss polishing of stainless steel and non-ferrous metals or for fine grinding of plastics and paint surfaces, our soft and very soft **Martoxid® PN, PS** and **PC** of friable calcined aluminas offer an ideal solution.



Martoxid® calcined alumina grades and portfolio

Martoxid® DN

→ HARD

Martoxid® DN-6
Martoxid® DN-206

High performing grinding agents in:

- smoothing glass
- silicon wafers
- crystal surfaces
- marble

Martoxid® MZS

→ INTERMEDIATE

Martoxid® MZS
Martoxid® MZS-3
Martoxid® MZS-12

High gloss polishing of stainless steel, non-ferrous metals and fine grinding of:

- plastics
- paint surfaces

Martoxid® PN

Martoxid® PN-6
Martoxid® PN-6(12)
Martoxid® PN-202

Martoxid® PS

Martoxid® PS-6
Martoxid® PS-6(12)

Martoxid® PC

Martoxid® PC 12-1
Martoxid® PC 12-3

→ SOFT

Polishing of steel and non-ferrous metals and grinding of:

- paints
- plastics

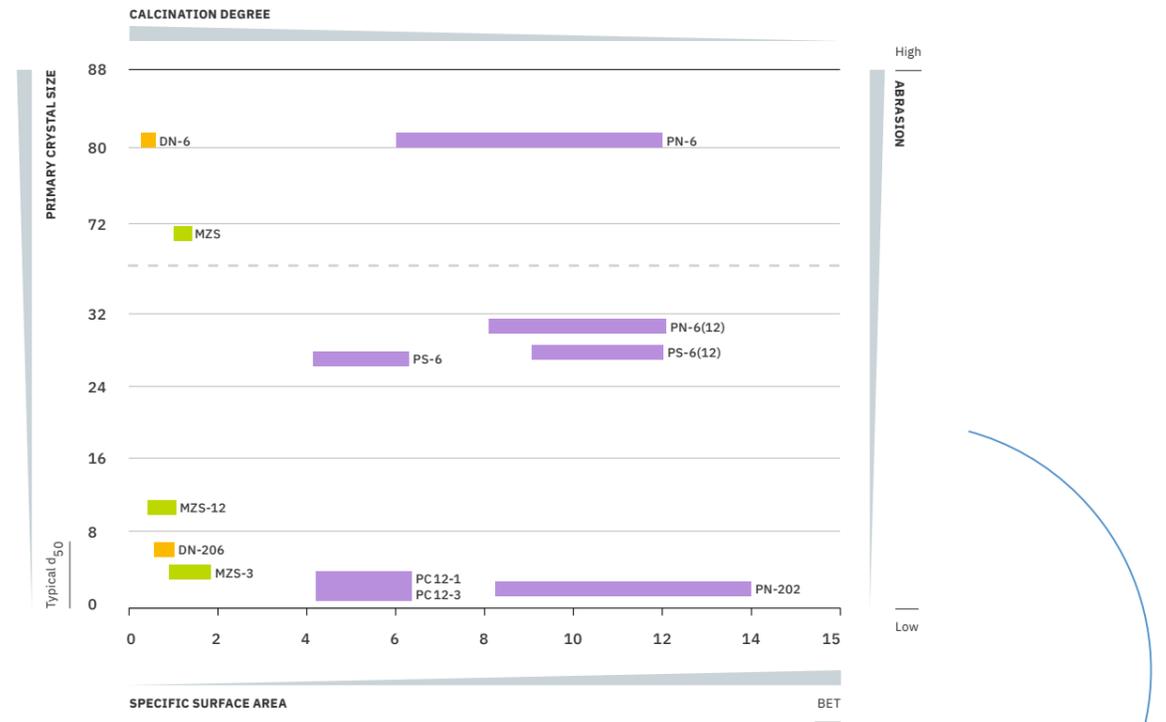
An insight into our products



Martoxid® Calcined Aluminas for Polishing and Grinding Typical properties

	PRODUCTS	Al ₂ O ₃	Na ₂ O TOTAL	SURFACE AREA	AVERAGE PARTICLE SIZE (μm) d ₅₀ / d ₉₀	PRIMARY CRYSTAL SIZE (μm)	OIL ABSORPTION (ml/100g)	CUTTING EFFECT	POLISHING EFFECT
HARD (LAPPING)	Martoxid® DN-6	99.6	0.3	0.4	80 / 200	6	50	9	1
	Martoxid® DN-206	99.6	0.3	0.7	6 / 15	6	20	7	3
INTERMEDIATE (PRELIMINARY POLISHING)	Martoxid® MZS	99.8	0.1	1	70 / 120	2.5	60	7	3
	Martoxid® MZS-3	99.8	0.1	1.2	3 / 12	2.5	25	4	6
	Martoxid® MZS-12	99.8	0.1	1	10 / 70	2.5	30	5	5
SOFT (HIGH-GLOSS POLISHING)	Martoxid® PN-6	99.6	0.3	10	80 / 220	1	60	3	8
	Martoxid® PN-6(12)	99.6	0.3	10	35 / 60	1	45	3	9
	Martoxid® PN-202	99.6	0.3	11	3 / 25	1	30	2	9
	Martoxid® PS-6	99.8	0.1	5	30 / 50	0.5	65	2	9
	Martoxid® PS-6(12)	99.8	0.1	10	25 / 30	0.5	65	2	9
	Martoxid® PC 12-1	99.6	0.3	5	1.5 / 9	0.5	35	1	10
	Martoxid® PC 12-3	99.6	0.3	5	1.7 / 12	0.5	35	2	10

Martoxid® Calcined Aluminas Product Positioning for Polishing and Grinding



- HARD (LAPPING)**
 - Martoxid® DN-6
 - Martoxid® DN-206
- INTERMEDIATE (PRELIMINARY POLISHING)**
 - Martoxid® MZS
 - Martoxid® MZS-3
 - Martoxid® MZS-12
- SOFT (HIGH-GLOSS POLISHING)**
 - Martoxid® PN-6
 - Martoxid® PN-6(12)
 - Martoxid® PN-202
 - Martoxid® PS-6
 - Martoxid® PS-6(12)
 - Martoxid® PC 12-1
 - Martoxid® PC 12-3



LET US WORK FOR YOU!



Huber Advanced Materials has been supplying calcined aluminas for more than half a century. In addition to our comprehensive portfolio of innovative products for your next polishing or grinding application, we offer superior technical support and unparalleled customer service.

Our unsurpassed technical expertise is its foundation in developing high performing products that meet the exacting requirements for each application.

Huber Advanced Materials has a deep dedication toward customer care and strives to provide fast, personalized service to ensure a rewarding experience for its customers, time after time.

We look forward to working with you. Contact us today for more information and samples of our array of Martoxid® calcined alumina products for your polishing and grinding applications.



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Touching lives.
Enhancing safety.
**This is
Huber Advanced Materials.**



Our global footprint

The Huber Advanced Materials (HAM) SBU is a specialty chemicals business with a global, leading position in the development and production of halogen-free fire retardant solutions, smoke suppressants and specialty aluminas touching lives and enhancing safety for millions of people around the world.

Americas

Fairmount, GA
Atlanta, GA
Kennesaw, GA
Marblehead, IL
Bauxite, AR

Europe

Bergheim, Germany
Breitenau, Austria

Asia Pacific

Qingdao, China



2

R&D Centers

6

Manufacturing plants

3

Customer Care
Centers



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