

About | Dadco Alumina



OVERVIEW

Dadco is an international group active in the aluminium industry. We are a leading supplier of high quality alumina-based products and services in Europe. We are committed to the highest EHS standards and ISO certified in all relevant domains. Our extensive knowledge of the aluminium industry worldwide is built on decades of experience and numerous relationships within the industrial sector.

Our production facility, the Aluminium Oxid Stade (AOS) refinery located in Lower Saxony, 40km West of Hamburg, Germany, was built in the Stade-Bützfleth industrial zone between 1970 and 1973. Production originally started at the end of 1973. AOS has a current production in excess of one million metric tonnes of alumina (aluminium oxide Al_2O_3) per annum.

We refine various grades of bauxite into two main product groups:

- Smelter grade alumina (SGA) - delivered to aluminium smelters for processing into aluminium metal; and
- Alumina Chemicals - come in various forms: damp aluminium trihydrate, dry aluminium trihydrate and chemical grade calcined alumina. Our alumina chemicals are used to produce a range of chemicals such as zeolites, flame retardants and water treatment products.

All products are distributed by Dadco.



HISTORY

Dadco is a privately owned investment, manufacturing and trading group with ties to the aluminium industry stretching back over 50 years. Dadco is part of a larger group of companies; the founding company was established in 1915.

In April 2001 Dadco acquired 50 per cent shareholding in the Aluminium Oxid Stade GmbH (AOS) refinery in Germany, after the Alcoa / Reynolds merger in 2000. In June 2004, Dadco purchased the remaining 50 per cent share from Norsk Hydro.

Dadco is a shareholder of Halco Mining Inc., this partnership with Rio Tinto Inc., Alcoa World Alumina and Chemicals owns 51% of Compagnie des Bauxites de Guinee (CBG) in Guinea, the remainder being owned by the Government of the Republic of Guinea. CBG has exclusive rights to bauxite reserves and resources in north-western Guinea through 2038. In addition to mining in Sangaredi, CBG operates a facility at the port in Kamsar for drying and shipping bauxite to alumina refineries worldwide.

VISION AND VALUES

Dadco seeks to increase its recognition as a leader in the alumina and alumina chemicals industry and to maintain a world-wide reputation for quality and value. We are dedicated to the highest level of scientific excellence and commit our research to improving our product quality.

We strive to identify the most critical needs of our customers and devote our resources to meeting those needs. We believe in innovation in all areas of our business as a means of attaining and sustaining leadership.

The beliefs and values that guide Dadco's business strategies, corporate behaviour and relationships with customers, suppliers, partners and employees are:

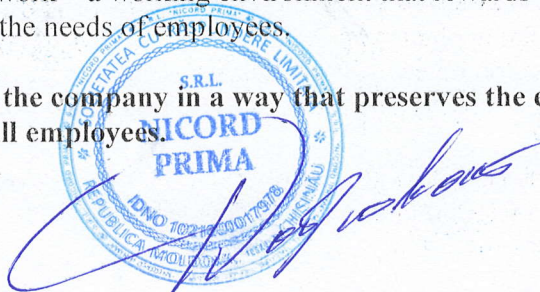
Excellence in all we do. We aim to supply the best quality alumina and alumina chemicals and provide excellent customer service and support. We value above all our ability to serve our customers who we are certain will profit from the use of our products and services, thereby providing lasting customer satisfaction.

We are committed to the highest standards of ethics, integrity and moral conduct. We are responsible to our customers, to Dadco employees, to the environment we inhabit and to the societies we serve worldwide. In discharging our responsibilities, we do not take professional or ethical shortcuts. Our interaction with all segments of society reflects these high standards.

We expect profits but will not compromise product quality or company integrity or EHS performance. Our ability to meet our responsibilities depends on maintaining financial stability and strength.

We recognize that the ability to excel – to most competitively meet society's and customers' needs – depends on the integrity, knowledge, skill, diversity and teamwork of employees, and we value these qualities most highly. We strive to create an environment of mutual respect, encouragement and teamwork – a working environment that rewards commitment and performance and is responsive to the needs of employees.

We are committed to operating the company in a way that preserves the environment and provides a safe work place for all employees.



BUSINESS INTEGRITY

Dadco does not accept or allow bribery in any form. The giving or receiving of bribes, whether by our employees or by any third party who acts on our behalf, is prohibited and will not be tolerated. We seek to influence the policies and actions of our business partners to ensure that they operate in a similar fashion.

We only offer or receive reasonable and proportionate gifts, entertainment or travel for appropriate business purposes, and we never pay for gifts, entertainment or travel as a means of influencing another person's decision-making.

We have implemented an Anti-bribery and Corruption Policy which sets out the requirements which we impose on our employees and those acting on our behalf, and the expectations we have for our business partners and third parties in terms of interacting with public officials, donations and sponsorship, exchanging gifts and entertainment, appropriate record-keeping and reporting improper behaviour.

For more information, or if you would like to report any suspected improper behaviour which you believe is in breach of our commitment not to engage in bribery, please email: compliance@dadcoalumina.com All reports will be treated in the utmost confidence and in accordance with our policy of non-retaliation.

Welcome | Dadco Alumina



OUR PRODUCTS

We supply alumina and alumina-based products to the Aluminium and Industrial Chemical Industries



PRODUCTION PROCESS

We have increased production capacity at our refinery by 50%, and reduced emissions at the same time



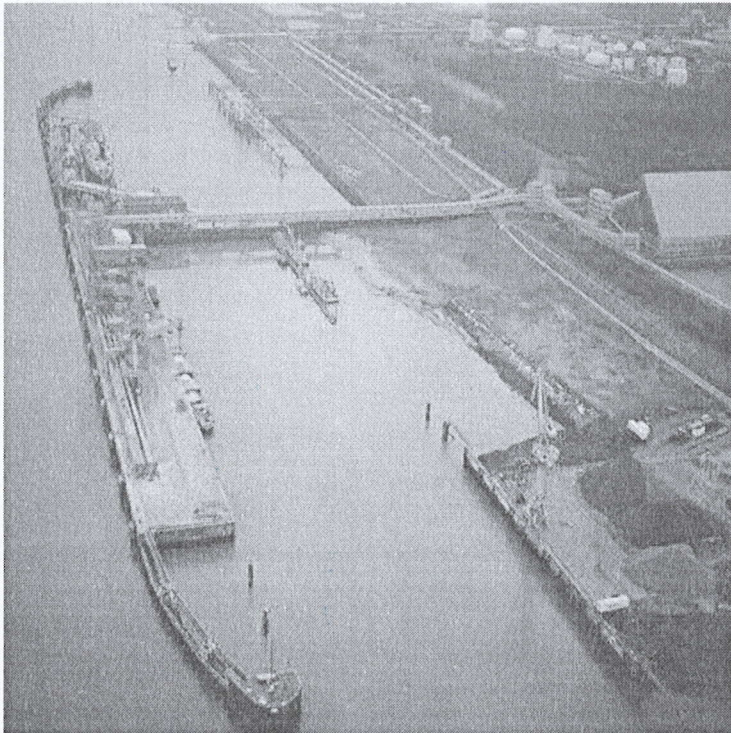
LOGISTICS



We deliver product to customers worldwide using our extensive network of logistics partners

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Products | Dadco Alumina



Dadco supplies the following alumina and alumina based products to the Aluminium and Industrial Chemical Industries.

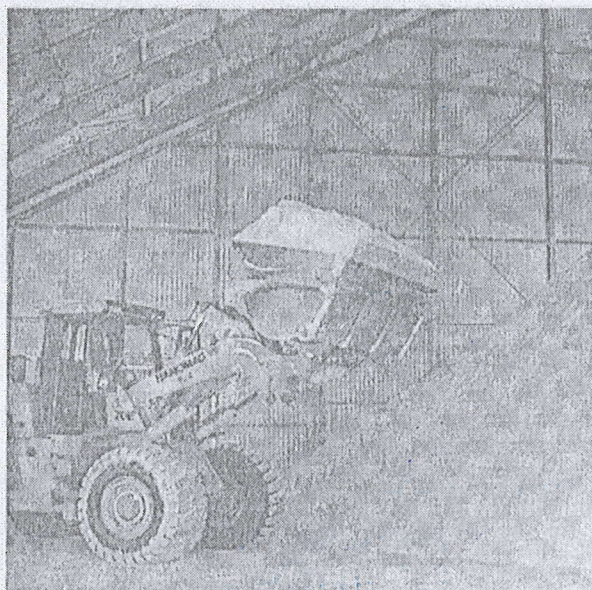
Damp Aluminium Trihydrate (hydroxide) - SH 10

Dry Aluminium Trihydrate (hydroxide) - SH 20

Calcined Alumina - SO 143

Ground Aluminium Trihydrate

Smelter Grade Alumina SGA



Production | Dadco Alumina



OVERVIEW

The Aluminium Oxid Stade GmbH (AOS) alumina refinery was built in the Stade-Bützfleth industrial zone between 1970 - 1973. The plant covers an area of 55 hectares (approx. 133 acres), and boasts an outstanding infrastructure. Production started at the end of 1973.

Our commitment to continuous improvement has allowed AOS to increase the nominal production capacity of 600,000 to over 1 million metric tons of alumina per year by enhancing processes and the infrastructure. These improvements have also significantly reduced emissions.

Aluminium Oxid Stade GmbH is a tolling company, owned by Dadco Alumina and Chemicals Limited. The technology was supplied by the former Vereinigte Aluminium-Werke AG.

PRODUCTION PROCESS

The production of aluminium trihydrate and aluminium oxide is based on the Bayer Process. Austrian Karl Josef Bayer received patents in 1887 and 1892 for his process to extract aluminium hydroxide from bauxite using caustic soda. The Bayer process has four distinct stages: Digestion, Clarification, Precipitation and Calcination.

QUALITY MANAGEMENT

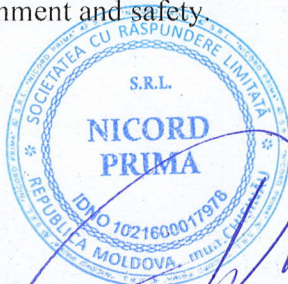
Our emphasis is on customer satisfaction and improving the organisation's effectiveness, efficiency and profitability.

In 1996, AOS was certified for the first time by GAZ (Company for Accreditation and Certification) in accordance with DIN EN ISO 9001.

The reconfirmation of the certificate took place in July 2006. In addition, an environmental system according to DIN EN ISO 14001 and an occupational safety and health management system according to DIN EN ISO 45001 have been implemented and certified as integrated management.

Furthermore, the energy management system (EnMS) of AOS was certified in December 2012 in accordance with DIN EN ISO 50001. This was done in cooperation with the GUT Zertifizierungsgesellschaft für Managementsysteme mbH. The EnMS is an effective tool for lowering the energy consumption and associated CO₂-emissions.

A Quality Management delegate has been appointed to co-ordinate the quality function and the management handbook includes quality, environment and safety.



Logistics | Dadco Alumina

A handwritten signature in blue ink, appearing to read 'Nicord Prima'.

PACKAGING

Aluminium Hydroxide can be packed in synthetic bags ranging from 600kg to 1200kg. Dry Aluminium Hydroxide can also be packed in paper bags.

Aluminium Oxide can also be packed in large synthetic bags as well as smaller paper sacks of 25kg and 50kg.

Packaged products are palletised and can be containerised for shipment.

DELIVERY

All deliveries are on Incoterms 2020 (ICC Publication No. 723EF) basis.

We deliver product to customers worldwide using our extensive network of logistics partners, or make product available for customer collection from our facilities (in Germany, Netherlands or Spain).

Products are available in bulk, containers or packaged depending on our customer requirements and available for delivery in the following modes of transport:

- Road - silo trucks, silo containers, pallets
- Rail - bulk and pallets
- River barges - bulk
- Ocean vessels - bulk and containers

Port of Stade-Bützfleth (Northern Harbour)

(Inner Harbour)

Length – usual length of pier: 150 metres
Maximum Depth Alongside: 7 metres during low water
Loading Rate (spout trimmed): Product dependent
Aluminium Hydroxide (Wet): 250 metric tonnes per hour SHINC
Aluminium Oxide: 500 metric tonnes per hour SHINC

(Outer Harbour)

Length – usual length of pier: 325 metres
Maximum Depth Alongside: 15 metres during low water
Loading Rate (spout trimmed): Product dependent
Aluminium Oxide: 500 metric tonnes per hour SHINC
Discharging Rate - Bauxite: 550 metric tonnes per hour SHINC

(Vessel Requirements)

Maximum Air Draft: 14 Metres



Maximum Vessel Length: 205 Metres
Maximum Vessel Beam: 35 Metres

Agent - Product

Herbert C Meyer
GmbH & Co KG
P.O. Box 16 28
D-21656 Stade
Germany

Phone: +49 4146 1001
Fax: +49 4146 1004
Email: info@meyership.de
Website: www.meyership.de

Surveyor

Independant Marine Consultants & Experts Falldorf, Hatecke &
Rogall Westerladekop 140A
D-21635 Jork
Germany

Phone: +49 4691 1177
Fax: +49 41 4691 1176
Email: info@sea-port-consult.de
Website: www.sea-port-consult.de

DISPATCH DEPARTMENT

Our dispatch department is located at:

Aluminium Oxid Stade GmbH
Johann-Rathje-Köser-Straße
D-21683 Stade
Germany

Opening Hours: 06:45 hrs — 16:00 hrs

LOADING TRUCKS

AOS can only load trucks designed for carrying pallets or containers, Refrigerated vehicles and box bodies can not be loaded as they do not have sufficient restraining points.

All trucks reporting for loading must have sufficient restraining straps to secure the cargo (a minimum of 12 is recommended).

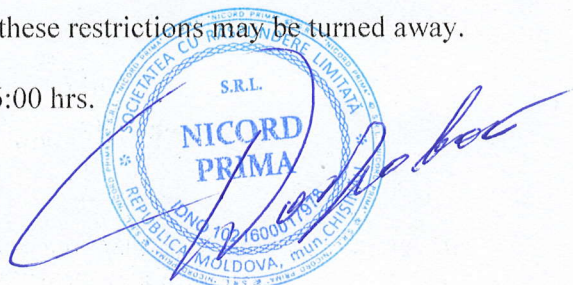
Vehicles presenting for loading which do not meet with these restrictions may be turned away.

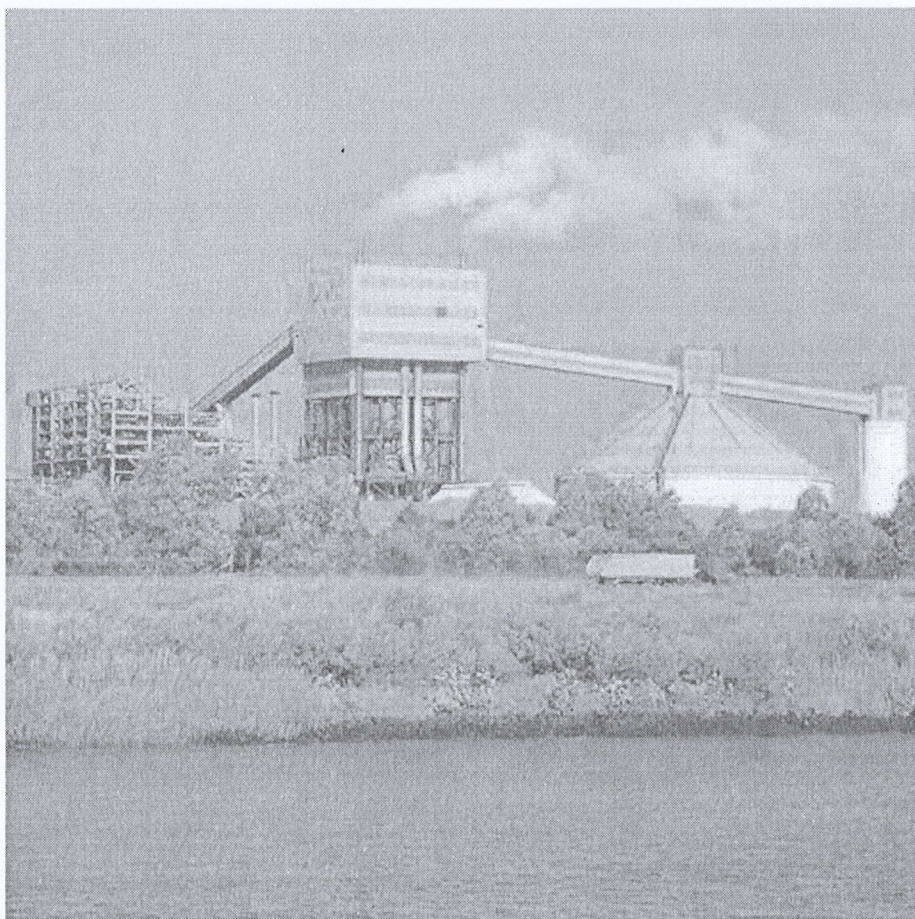
The cut off time for loading trucks on the same day is 16:00 hrs.

Agent - Bauxite

Montan Shipping
GmbH & Co KG
Am Sandtorkai 60
D-20457 Hamburg
Germany

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Fax: +49 40 3281 1367
Tlx: +2162187 mon d
Email: agency@montanship.de
Website: www.montanshipping.de





dadcoalumina.com

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