



MAKE THE SWITCH TO  
**NASTRA**®

THE TOUGHER, FASTER ALTERNATIVE TO COAL SLAG





# THE PERFECT REPLACEMENT

The ongoing phase-out of Europe's coal-fired power plants means a shortage of coal slag for blast cleaning. By 2022, there will no longer be sufficient volumes available.

But don't panic - we have the perfect replacement, available today.

**NASTRA®** is a highly versatile iron silicate blast cleaning abrasive, manufactured to DIN EN ISO 11126-3 standards. This premium material has a long and proven track-record across the industry, delivering outstanding surface preparation results to SA-3, SA-2½, SA-2 and SA-1 quality.



## FUNCTIONALITY & APPLICATION

### REMOVE

- + **MILL SCALE**
- + **RUST**
- + **DIRT**

### USE ON

- + **STEEL**
- + **STONE**
- + **CONCRETE**



## CHOICE & FLEXIBILITY

- + **EASY TO HANDLE**
- + **WIDE RANGE OF GRAIN SIZES**  
FROM 0.2 - 1.0MM UP TO 1.4 - 2.8MM
- + **FAST DELIVERY IN BULK, 25KG BAGS, BULK BAGS OR MOBILE SILO**



# NASTRA® BENEFITS



## TOUGHER

Because no crushing or grinding is involved in manufacturing, **NASTRA®** retains a natural hardness, measuring above 7 on the Mohs scale. This makes it a very tough material with a low breakdown rate.



## FASTER

Due to its higher density, **NASTRA®** transfers higher levels of kinetic energy than coal slag, delivering faster cutting speeds.



## READY

Supplies of some expendable abrasives are declining, creating uncertainty around future availability. **NASTRA®** is readily available in large volumes, giving you the confidence of a sustainable supply today and tomorrow.



## GREENER

**NASTRA®** is a recycled product. Compared to primary sourced raw materials, use of secondary raw materials helps to reduce the carbon footprint of your blast cleaning activities.





# NASTRA<sup>®</sup> BENEFITS

## **BUT DOESN'T IRON SILICATE GENERATE MORE DUST THAN COAL SLAG?**

**NO.** Thanks to a higher bulk density, iron silicate creates substantially less airborne dust during blasting than coal slag.

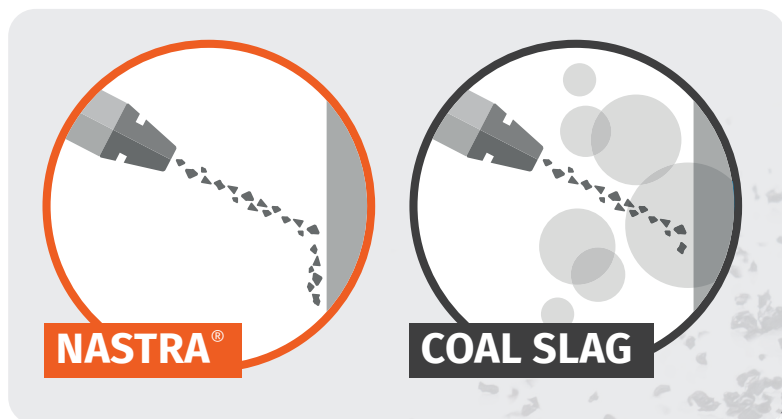
Iron silicate particles hit the blasting surface and drop to the floor.

Coal slag particles hit the blasting surface and shatter, creating dust in the air.

## **AND DOESN'T IRON SILICATE CREATE HAZARDOUS WASTE?**

**NO.** Hazardous waste is created by the type of coating that is removed through blast cleaning, not by the abrasive material.

**NASTRA<sup>®</sup>** is a non-hazardous material, containing less than 0.1% free crystalline silica.







## THE CUSTOMER VIEW

'Sustainability and environmental protection start with the selection of raw materials for blasting abrasives. It is commendable that there are still producers like Sibelco who conserve natural resources through the use of greener, secondary raw materials. Not to mention, greener materials that do the job. **NASTRA®** is tough and fast, yet still environmentally friendly. Good all-around solution.'



**PETER LEY**

CEO AMPECO GMBH DINSLAKEN, GERMANY



**NASTRA®**

IN ACTION

## RENOVATING EUROPE'S TALLEST EXHIBITION BUILDING

**NASTRA®** was used in the renovation of Gasometer Oberhausen in Germany, helping to maintain the striking appearance of the 117.5m tall iconic structure.

Refurbishment of the former industrial relic began in October 2019 and involved removal of rust and paint from the steel structure's exterior in preparation for the application of new corrosion protection and repainting.

After scaffolding had been erected around the Gasometer, blasting work was undertaken by surface treatment specialists Rodopi Marine GmbH using **NASTRA®** grade NA14 (0.2 – 1.4mm) as the chosen abrasive to achieve the perfect finish.

We placed four 19m³ rental silos filled with **NASTRA®** at the site of the project, ensuring that Rodopi Marine had a continuous and uninterrupted supply of material for the job. Blasting work was followed by a base coat and two topcoats.

Standing by the Rhine-Herne Canal, Gasometer Oberhausen was built in the late 1920s as Europe's largest disc-type gas holder. It was decommissioned in 1988 and converted into a stunning exhibition space in 1994 with more than 7,000m² of space for international events.

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SIBELCO



# NASTRA<sup>®</sup> TECHNICAL DATA



## GRANULOMETRIC DATA & PHYSICAL CHARACTERISTICS

Mean values. These do not represent a specification.

<b>SHAPE</b>	angular
<b>COLOUR</b>	grey/black
<b>HARDNESS</b>	>7 Mohs
<b>SPECIFIC DENSITY</b>	3.7kg/dm <sup>3</sup>
<b>LOOSE BULK DENSITY</b>	1.8kg/dm <sup>3</sup>
<b>CONDUCTIVITY</b>	less than 250 µS/cm
<b>WATER SOLUBLE CHLORIDES</b>	less than 0.0025% (m/m)



## CHEMICAL ANALYSIS (XRF)%

Mean values. These do not represent a specification.

<b>SiO<sub>2</sub></b>	32 - 38 % in bound form, <0,1% free crystalline silica
<b>Fe<sub>2</sub>O<sub>3</sub></b>	51 - 58%
<b>Al<sub>2</sub>O<sub>3</sub></b>	4 - 8%
<b>CaO</b>	2 - 10%
<b>K<sub>2</sub>O</b>	0 - 2%
<b>MgO</b>	1 - 3%
<b>Other</b>	traces only



## GRADES

<b>NA10</b>	0.2 - 1.0 mm
<b>NA14</b>	0.2 - 1.4 mm
<b>NA514</b>	0.5 - 1.4 mm
<b>NA20</b>	0.2 - 2.0 mm
<b>NA25</b>	0.2 - 2.5 mm
<b>NA28</b>	0.2 - 2.8 mm
<b>NAST</b>	0.5 - 2.5 mm
<b>NA428</b>	1.4 - 2.8 mm



PRODUCTION

**HAMBURG, GERMANY**



PACKAGING

- + Paper bags of 25 kg, on shrinkfoiled pallets
- + Strong woven polypropylene big bags, with 4 lifting loops

Other packing options on request.





## FIND OUT MORE

PLEASE GET IN TOUCH TO LEARN MORE  
ABOUT NASTRA<sup>®</sup> AND THE BENEFITS IT  
COULD BRING FOR YOUR BUSINESS.

✉ [CUSTOMERSUPPORT.DE@SIBELCO.COM](mailto:CUSTOMERSUPPORT.DE@SIBELCO.COM)

🔗 [ABRASIVES.SIBELCO.COM](https://ABRASIVES.SIBELCO.COM)