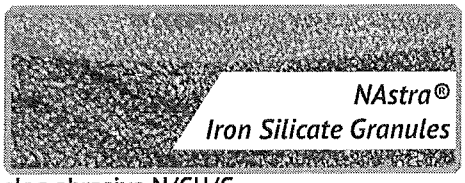
BRÜMMER
STRAHLMITTEL
GmbH & Co. KG



slag abrasive N/CU/G

Designation:	**NAstra®** slag abrasive N/CU/G
Quality:	In accordance with standard ISO 11126-3. Synthetic mineral abrasive. Angular particle shape. As to quality assurance, the product is subjected to continuous examination.
Origin:	Aurubis AG, Hamburg. During melting of copper ore concentrates an iron silicate melt is formed. This is passing a groove and is granulated at a temperature of approximately 1250 °C, using a temperature-controlled pressurised water jet. After cooling down in a tank with water the fine particles are separated from the granulate manufactured in this way. Procedure in accordance with DIN 4301.
Properties:	Vitreous amorphous slag. Absorbs no water. Only wetting on the surface possible. During the manufacture of the abrasive no crushing or grinding procedures are included. Therefore, the single abrasive particle is not broken up and retains its extreme hardness and tenacity which is the case for all particle sizes. Dust reduced. All constituents are present in oxidised form, predominantly as bonded silicate. Chemically indifferent and water-insoluble. No free metallic constituents. Electrically non-conductive. Typical radioactive elements not detectable by gamma ray spectrometer.
Hardness:	Mohs hardness > 7
Densities:	Apparent density, determined by using vacuum — approx. 3,7 g/cm³ Bulk density for medium particle size range — approx.1,85 g/cm³
Chemical analysis: (Approximate Values)	SiO_2 — 30 % to 34 % FeO — 51 % to 57 % CaO — 1 % to 2 % ZnO — 1 % to 2 % Al_2O_3 — 3% to 7 % MgO — 1,5 % Cu_2O — 0,7 % S — 0,4 %
Free silica:	Not detectable.

Health and Safety regulations:	All legal regulations are complied with. The respective limits remain under those laid down in BGR 500 Kap. 2.24 respectively. (EC Law) No specific regulations regarding storage in the state of delivery are to be observed.
Applicability:	Use as blast-cleaning abrasive for all application fields in conventional corrosion protection on almost all surfaces.
Standard particle sizes:	In accordance with EN ISO 11126-3, table 1, Particle sizedistribution. Special particle size distribution on request.
Forms of supply:	Ready for use, in bulk or packed in vented paper bags on pallet shrink-wrapped, in big bags or in any export packing required. Supply from our production plant, located next to the seaport of Hamburg, and directly linked with major motorways to all destinations.
Blast-cleaning technique and particle size range selection:	The blast-cleaning performance is the better, the higher and more carefully controlled the air pressure is at the nozzle. The particle size distribution is to be determined by the user, depending on the individual blast-cleaning purpose and the condition of the surface to be blast-cleaned. The choice of the particle size also depends on the diameter of the nozzle and other values, for example the specified surface profile (roughness). In principle, the correct abrasive particle size distribution is available for each possible blast-cleaning purpose, and can be delivered on short notice.
Notes:	The impact to the vicinity of a blast-cleaning site, including the inevitable formation of dust during blast-cleaning, shall be carefully considered when selecting the blast-cleaning abrasive to be used. The dust generation during blast-cleaning will be reduced to about one quarter when using **NAstra®** slag abrasive, compared to many other slag abrasives (neutral expertises are at hand).
Waste management:	**NAstra®** slag abrasive will be taken back by us against payment after prescribed use, as a blast-cleaning waste, even when contaminated with con siderable quantities of detrimental impurities, for utilization in accordance with the German Kreislaufwirtschafts- und Abfallgesetz (Business cycle and wastelaw) from 1994-09-27. Procedures are approved by authorities.
Remark:	Please note that all statements made on **NAstra®** are only valid during its original condition.

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