MINRO-SIL® 2001

General Information

MINRO-SIL® 2001 represents the newest generation of high-purity, silica-based dry vibratable refractories designed for lining coreless induction furnaces. Using quality silicas and carefully controlled grain sizing, MINRO-SIL® 2001 provides more predictable service life and extended refractory campaigns. Its enhanced design allows for improved installation properties, tighter grain interlocking and good dry powder flow.

MINRO-SIL® 2001 is suitable for melting gray, ductile and malleable iron in all types of iron foundry operations. This product may also be used for many iron alloys, such as Ni-hard, Ni-resist, and chrome irons, and selected high-temperature nonferrous metals. MINRO-SIL® 2001 is available in numerous boron oxide equivalent levels.

Technical Data

Typical Analysis
(excluding bond)  Material Required............................................ 2.18 g/cm³ (136 lb./ft.³)
SiO₂  99.2%  Grain Size.................................................. 4.75 mm (4 mesh) and finer
Al₂O₃  0.5%  Maximum Use Temperature ....................................... 1650°C (3000°F)
Fe₂O₃  0.1%  Installation Method .................................................. Dry ram or vibrate
Others  0.2%  Procedure(s) ................................................ CL-1, CL-2, CL-4, CL-13,

Sintering Data

Intermediate Hold Temperature: 980°C (1800°F)
Final Hold Temperature (Maximum): 1595°C (2900°F)
Initial heat-up rate is dependent upon furnace size.

Packaged in 25 kg (55 lb.) multi-wall paper bags protected with stretch wrap. Also available in bulk packaging. Storage beyond 24 months is not recommended. Store in a dry location to avoid moisture pickup.

Allied Mineral Products, Inc. supplies an entire line of monolithic refractories for melting and holding all types of metals in coreless and channel induction furnaces. For more information or a complete evaluation of your refractory requirements, please contact your local Allied representative.

Warning: Contains crystalline silica and boron oxide or boric acid. The International Agency for Research on Cancer (IARC) has classified crystalline silica inhaled in the form of quartz or cristobalite carcinogenic to humans. Do not breathe dust as it may cause delayed lung injury, silicosis. Wear NIOSH approved respirator during installation, removal, and disposal of product to prevent inhalation of dust. Refer to Material Safety Data Sheet. In case of eye contact, flush immediately and repeatedly with water and consult a physician. For safest use and optimum performance, proper practices must be followed.