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UGEN FERRO ALLOYS PVT. LTD.
PHUENTSHOLING : BHUTAN

PRODUCT DATASHEET: Quartzite

About:

Quartzite is a critical raw material in the production of ferrosilicon, an alloy of iron and silicon widely used in steel manufacturing for deoxidizing and alloying.

The high silica content (typically 98%–99.2% SiO_2) in quartzite makes it particularly suited for this application, as silica is the key chemical component required to form ferrosilicon.

To produce 1 tonne of ferrosilicon, approximately 1.75 to 2 tonnes of high-purity quartzite are needed. Along with iron ore, coke, and electrode paste, quartzite forms the silica source that reacts in electric arc furnaces to yield the final alloy.

Quartzite used in metallurgical processes must be of high purity, with minimal iron, alkali, and other impurities. Its hardness and resistance to heat and chemicals make it an ideal candidate for the harsh conditions of alloy production.

In addition to ferrosilicon (especially FeSi75), quartzite is also utilized in other ferroalloy processes like silicomanganese and ferrochrome, serving as a vital silica contributor.

SPECIFICATIONS:

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Size	40-100 MM / 20-40 MM / 5-20 MM/ & Others
SiO ₂	98.00% (Min.)
Al ₂ O ₃	0.7% (Max.)
MgO & CaO	0.5% (Max.)
Oversize	5% (Max.)
Undersize	5% (Max.)
Thermal Stability	20% (Max.) in -50 mm Mesh

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