ATLAS BALL & BEARING CO. LIMITED

SILICON CARBIDE SIC BALL DATA SHEET

SiC

Attributes

Silicon Carbide has been developed to meet a high quality technical grade ceramic with excellent mechanical properties. It has excellent chemical resistance, high wear resistance with good mechanical properties, including high temperature strength and thermal shock resistance.

Chemical Analysis

Typical Uses/Applications

Refractories and Kiln furniture in extreme conditions. Ball Valve parts. Fixed and moving turbine components. Heat Exchangers.

Grades available

G5, G10, G16, G25

Mechanical/Physical Properties

Hardness: Specific Gravity (Density) Magnetic properties: Modulas of Elasticity Flexural strength Fracture toughness Max working Temp Colour 2000-2500 Hv 3.15 g/cm³ (0.114 lb/in³) Non magnetic 350 GPa 400-500 Mpa 3 - 4 Mpa.m^{1/2} 1300° C Black

http://www.atlasball.co.uk

Whilst every care has been taken we cannot accept liability for any errors contained within this data sheet