

Hexoloy[®]

Description

A sintered, fine grain silicon carbide that is 50% harder than tungsten carbide. The only thing harder than Hexoloy is diamond, giving it excellent wear and abrasion resistance.

Advantages

- ✓ Excellent resistance to corrosion and erosion
- ✓ Impermeable to strong acids and alkali (such as HF, HCl and H₂SO₄)
- ✓ Resistant to thermal shock

Limitations

- ✓ Only moderate mechanical impact strength (will break if dropped)

Maximum exposure temperature

3450°F (1900°C)

Chemical composition

SiC	100%
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Thermal Conductivity

High (125 W/mK at room temperature)

Typical applications

- ✓ Molten aluminum, zinc, lead, copper and tin
- ✓ Flue gas monitoring
- ✓ Incinerators
- ✓ Hydrofluoric and sulfuric acid applications