

Enhanced Hexoloy® SA Silicon Carbide



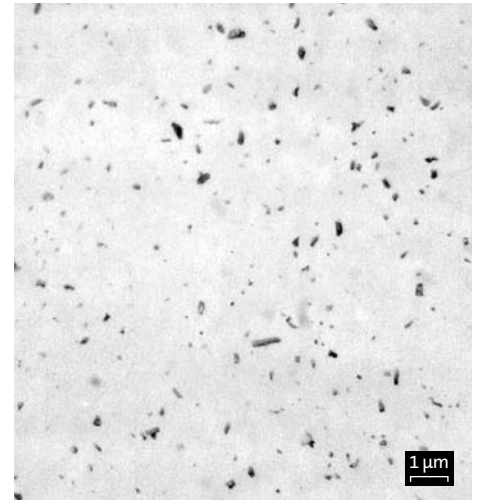
Saint-Gobain Ceramics Structural Ceramics

Enhanced Hexoloy® SA exhibits reduced micro-porosity, which results in increased flexural strength and a higher Weibull modulus. It is well suited for use in critical applications as follows:

- High Stress Loads
- High Rotational Speeds
- Improved Wear Properties
- Low Surface Porosity

Physical Properties	Units	Standard Hexoloy® SA	Enhanced Hexoloy® SA
Flexural Strength 4 pt @ RT*	MPa x 10 ³ lb/in ²	380 55	428 62
Compressive Strength @ RT	MPa x 10 ³ lb/in ²	3900 560	3900 560
Weibull Modulus (2 parameters)	—	8	12
Fracture Toughness @ RT Double Torsion & SENB	MPa x m ^{1/2} x 10 ³ lb/in ² x in ^{1/2}	4.60 4.20	4.60 4.20

* Test Bar Size: 3 x 4 x 45 mm (0.118" x 0.157" x 1.772")



Photomicrograph of Enhanced Hexoloy® SA Silicon Carbide (500X)

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Structural Ceramics
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