

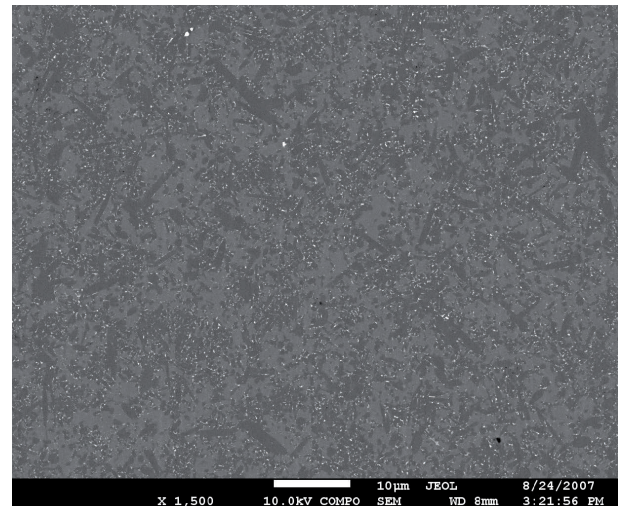
Standard grade data sheet

Grade CTI3105

ISO Code
 US Industry Code
 Version 08.1

Chemical composition

Element Weight %
 α - β SiAlON 100.0



Typical microstructure (x1500)

Physical and mechanical properties

Average grain		ultrafine
Density (ISO 3369)	g/cm ³	3.30
Hardness (ISO 3878)	HV ₁₀	1900
Hardness (ISO 3878)	HV ₃₀	1870
Hardness (ISO 3738)	HRA	93.4
Transverse rupture strength (ISO 3327)	MPa	1100
Compressive strength	MPa	3000
Young's modulus	GPa	300
Fracture toughness (SEVNB)	MPa.m ^{1/2}	6.5
Thermal conductivity	Wm ⁻¹ K ⁻¹	15
Thermal expansion coefficient (20-400°C)	10 ⁻⁶ K ⁻¹	3.0

The information is conveyed as an example only and does not constitute neither a specification nor a representation.