

Tungsten Carbide



SP2000 Tungsten carbide

Tungsten carbide (TC) occupies an important position in the sealing materials, due to its high hardness, rigidity, wearability, good thermal conductivity, and small heat expansion co-efficient.

It is widely used as seal faces, especially suitable in heavy load mediums containing solid particles and which are easy crystallizing.

Specifications:

Material		YG6	YG8	YWN6	YWN8
Composition	WC	94%	94%	92%	92%
	Ni	---	6%	8%	---
	Co	6%	---	---	8%
Density		14.6~15g/cm ³	14.5~14.9g/cm ³	14.5~14.9g/cm ³	14.4~14.8g/cm ³
Hardness		89.5 (HRA)	89 (HRA)	88.5 (HRA)	88 (HRA)
Fractural strength		1421MPa	1470MPa	1490MPa	1470MPa
Heat expansion co-efficient		5 x 10 ⁻⁶ /K	5.1 x 10 ⁻⁶ /K	5.2 x 10 ⁻⁶ /K	5.3 x 10 ⁻⁶ /K