

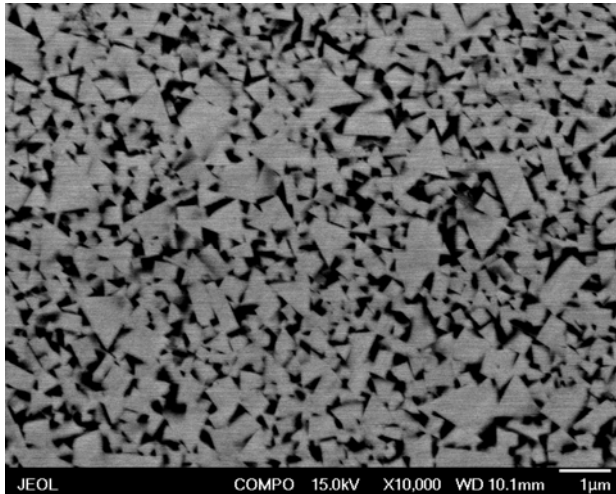


ZCC XU30

Chemical Content (Wt/Wt %)

Co	12%
WC+Other carbides	Balance

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Physical and mechanical properties

Density(g/cm ³)	ISO3369	14.10±0.05
Hardness HV30	ISO3878	1750 (typical) /1670 (Min)
HRA		92.5 (typical) / 91.9 (Min)
4 π σ (μ Tm ³ /kg)		20.0±2
HC(KA/m)	ISO3326	27.5±3.5
TRS(N/mm ²)	ISO3327	Sample B: 3500 (typical) /3000 (Min)
K _{ic} (Mpa.m ^{1/2})		14.0

Micro Structure

Micro porosity	ISO4505
A (<10 μ m)	: ≤02
B (10-25 μ m)	: ≤00
C	: ≤00

Grain Size (micron)	ISO 4499 :	0.4um
η phase	ISO 4499 :	E00

Applications:

Suitable for the machining of composite materials, such as stainless steel, high temperature alloy, hardened steel(especially for heat-treated steel with hardness HRC(≤45), glass fiber reinforced plastics. Recommended to make drills, end mills, reamers, gravers and screw taps, etc.