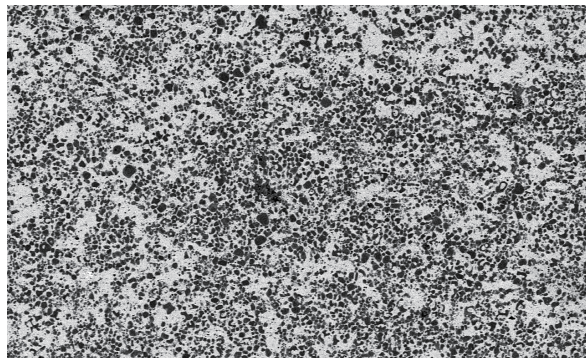


GUIDE ROLLERS FOR WIRE ROD MILLS

Titanium carbide has proved to be a cost-effective material for the manufacture of guide rollers for wire rod mills, having low density, excellent oxidation and wear resistance, coupled with relatively good resistance to thermal shock.

Specially designed for guide roll applications

- High performance Titanium Carbide material
 - Greater Wear Resistance
 - Light Weight
- Manufactured to meet the demands of unique operating parameters
 - Withstand today's high speed rolling conditions
- Outperforms tool steels
 - Handle high speeds of up to 140 meters per second
 - Guide roll rotation of approximately 35,000 rpm
 - Does not exhibit the residual micro-porosity present in conventional Fe-TiC guide rolls
- Treated by advanced HiP [Hot Isostatic Press] technology
 - Achieves top performance
 - Better quality



Features & Benefits

- Lighter than WC-Co by 50%
- Lighter than steel by 15%
- Free of micro-porosity and other defects
- Excellent wear resistance similar to WC-Co
- Minimum pick-up galling
- Outstanding strength and impact resistance
- Superior high temperature corrosion resistance
- Easy to be machined by conventional cutting tools
- Highly heat-treatable

Tungsten Carbide & Mill Rolls (India) Private Limited also supplies guide rolls in Tungsten Carbide material with grade of YG20 or YG15.

Grade	Chemical composition	Mechanical properties		
		Hardness HRA	TRS Mpa	Density g/cm
SMT35	35%TiC+65%Fe,Ni,Cr,C	≥86.5	≥1400	6.42 - 6.55
YG20	80%WC+20%Co	≥84.5	≥2800	13.48 - 13.63
YG15	85%WC+15%Co	≥ 86.0	≥ 2220	14.90 - 15.20