



# tungsten carbide

## FEATURES

- High hardness
- Corrosion-proof
- Good mechanical strength
- With Ni, menor corrosión
- With Co, higher hardness



QUALITY GRADE		WCNi6%	WCCo6%	WCCo8%	WCCo11%
<b>PHYSICAL PROPERTIES</b>					
Density	g/cm <sup>3</sup>	14,5 - 14,9			
ISO Code		--	K10 - K20	K30	K40
Hardness	HRA	90	90,5	89,5	86,5
Hardness	HV50	1590	1600	1400	1200
Flexural Strength	MPa	1550	1800	2200	2500
Thermal Expansion Coeff.	10 <sup>-6</sup> /°C	5,2	5	5	6,80
Thermal Conductivity	W/m°K	60 - 90			
Safe Use Temperature	°C	400			
<b>COMPOSITION</b>					
WC	%	94	94	92	89
Co	%	--	6	8	11
Ni	%	6	--	--	--



NOTA: These properties are typical average value and are for general guidance only, not compromising the Carbosystem company.

materials for industrial processes



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