

Carpenter O6 Graphitic Tool Steel (AISI O6)

Category : Metal , Ferrous Metal , Tool Steel , Cold Work Steel , Oil-Hardening Steel

Material Notes:

Carpenter O6 is an oil-hardening tool steel designed for cold work applications. It is designed to have free graphite in the microstructure. This free graphite is responsible for the excellent machining characteristics of this grade. It is available as a DeCarb-Free product. DCF bars have been cold finished in the mill, eliminating the need for bar bark removal. Applications: Blanking dies, Drawing dies, Forming dies, Punches, Hobs for nonferrous metals, Gauges, Cams, Bushings, Mandrels, Piercing dies, Pneumatic hammers, Spinning tools, Stamps, Taps, Edging and metal forming rolls, Jewelers anvils, Rotary slitting cutters, Marking tools, Wear plates. Information provided by Carpenter Technology Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Carpenter-O6-Graphitic-Tool-Steel-AISI-O6.php

Physical Properties	Metric	English	Comments
Specific Gravity	7.67 g/cc	7.67 g/cc	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	31	31	Tempered at 1200°F
	65	65	As hardened

Thermal Properties	Metric	English	Comments
CTE, linear	12.48 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	6.933 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 25.0 - 250 °C	@Temperature 77.0 - 482 °F	
	13.17 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	7.317 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 25.0 - 350 °C	@Temperature 77.0 - 662 °F	
	13.86 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	7.700 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 25.0 - 500 °C	@Temperature 77.0 - 932 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	1.45 %	1.45 %	
Iron, Fe	96.45 %	96.45 %	As Balance
Manganese, Mn	0.85 %	0.85 %	
Molybdenum, Mo	0.25 %	0.25 %	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China