

NAK80 Tool Steel

JIS NAK80 is a Low-Carbon Mould Steel. P21 is the designation in AISI systems for this material. T51621 is the UNS number.

Related Specifications

China	:GB	10Ni3MnCuAl
Germany	:DIN EN#	1.2764
USA	:AISI	P21
	:UNS	T51621
Japan	:JIS	NAK80

* Note that materials compared are the nearest available grade and might have slight variation in actual chemistry

Stocked Materials Supplied in Condition	Typical Hardness
Pre-hardened	300 - 320 HB

Mechanical Property	Pre-hardened
Condition	Pre-hardened
Ultimate Tensile Strength (MPa)	1130
Elongation (%)	-
Modulus of Elasticity (GPa)	190
Hardness (HB)	300 - 320 HB

Chemical Composition		Ni		Co		Mn		Si		Cr		C		V		Cu		P		S	
Tool Steel-NAK80		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
STAR Standard	NAK80	2.8%	3.4%			1.4%	1.7%	-	0.35%			0.06%	0.22%			0.7%	1.2%	-	0.03%	-	0.03%

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