

5.50-6.40

This page is mainly introduced the HS6-5-4-2 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of HS6-5-4-2, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Tool Steel And Hard Alloy HS6-5-4-2

	HS6-5-4-2 Standard Number:			
ITEM	Standard Number	Descriptions		
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HS6-5-4-2 Chemical composition(mass fraction)(wt.%) Min.(%) Chemical Max.(%) С Si Мn Ρ S Cr Ni Мо V Та 0.67-0.73 4.00-4.50 4.70-5.20 1.80-2.10 W Ν Cu Со Pb в Nb AI Ti Other

≤0.50

HS6-5-4-2 Physical Properties			
Tensile strength	115-234	σb/MPa	
Yield Strength	23	σ 0.2 ≥/MPa	
Elongation	65	δ5≥ (%)	
ψ	-	ψ≥ (%)	
Ακν	-	Akv≥/J	
HBS	123-321	-	
HRC	30	-	

HS6-5-4-2 Mechanical Properties				
Tensile strength	231-231	σb/MPa		
Yield Strength	154	σ 0.2 ≥/MPa		



Elongation	56	δ5≥(%)
Ψ	-	ψ≥(%)
Akv	-	Akv≥/J
HBS	235-268	-
HRC	30	-

HS6-5-4-2 Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

HS6-5-4-2 Range of products				
Product type	Products	Dimension	Processes	Deliver Status
Plates / Sheets	Plates / Sheets	0.08-200mm(T)*W*L	Forging, hot rolling and cold rolling	Annealed, Solution and Aging, Q+T, ACID- WASHED, Shot Blasting
Steel Bar	Round Bar, Flat Bar, Square Bar	Φ8-1200mm*L	Forging, hot rolling and cold rolling, Cast	Black, Rough Turning, Shot Blasting,
Coil / Strip	Steel Coil /Steel Strip	0.03-16.0x1200mm	Cold-Rolled & Hot- Rolled	Annealed, Solution and Aging, Q+T, ACID- WASHED, Shot Blasting
Pipes / Tubes	Seamless Pipes/Tubes, Welded Pipes/Tubes	OD:6-219mm x WT:0.5-20.0mm	Hot extrusion, Cold Drawn, Welded	Annealed, Solution and Aging, Q+T, ACID- WASHED

We can produce Tool Steel And Hard Alloy the specifications follows: