

This page is mainly introduced the **HP 9-4-25 Datasheet**, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of **HP 9-4-25**, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Specialsteel HP 9-4-25

HP 9-4-25 Standard Number:

ITEM	Standard Number	Descriptions
1	SAE AMS 6546	Steel Sheet, Strip, and Plate 0,48Cr - 8,0Ni - 4,0Co - 4,48Mo - 0,09V - (0,24 - 0,30C) Consumable Electrode Melted, Annealed

HP 9-4-25 Chemical composition(mass fraction)(wt.%)

Chemical	Min.(%)	Max.(%)							
C	0.24	0.30							
Si		0.10							
Mn	0.10	0.35							
Ni	7.00	9.00							
Cr	0.35	0.60							
Al									
Cu									
Ti									
Fe									
Mo	0.35	0.60							
Co	3.50	4.50							
V	0.06	0.12							
P		0.01							
S		0.01							
C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other

Steel Sheet, Strip, and Plate 0,48Cr - 8,0Ni - 4,0Co - 4,48Mo - 0,09V - (0,24 - 0,30C) Consumable

Electrode Melted, Annealed

HP 9-4-25 Physical Properties

Tensile strength	115-234	σ_b /MPa
Yield Strength	23	$\sigma_{0.2} \geq$ /MPa
Elongation	65	$\delta_5 \geq$ (%)
ψ	-	$\psi \geq$ (%)
Akv	-	Akv \geq /J
HBS	123-321	-
HRC	30	-

HP 9-4-25 Mechanical Properties

Tensile strength	231-231	σ_b /MPa
Yield Strength	154	$\sigma_{0.2} \geq$ /MPa
Elongation	56	$\delta_5 \geq$ (%)
ψ	-	$\psi \geq$ (%)
Akv	-	Akv \geq /J
HBS	235-268	-
HRC	30	-

HP 9-4-25 Heat Treatment Regime

Annealing	Quenching	Tempering	Normalizing	Q & T
√	√	√	√	√

HP 9-4-25 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 Specialsteel the specifications follows: