



HP 9-4-20

<https://www.steel0.com>

High Quality Special Steel Supplier

+86-13880247006 E-mail:sales@steel0.com

HP 9-4-20

Steel, Bars, Forgings, Tubing, and Rings 0.75Cr - 9.0Ni - 4.5Co - 1.0Mo - 0.09V (0.17 - 0.23C) Consumable Electrode Vacuum Melted HP 9-4-20 steel chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, We can produce round bars, forged rings, forged cakes, flat bars, tubes, sheets, plates, steel wires, steel strips, steel coils, etc. The size can be customized, the maximum order quantity is 100Kg. It also contains the use of **HP 9-4-20**,such as it is commonly used in bars, sheet,plates, steel coils, steel pipes,forged and other materials application.

Data Table for Grades Stainless Steels - Special Steels Steel, Bars, Forgings, Tubing, and Rings 0.75Cr - 9.0Ni - 4.5Co - 1.0Mo - 0.09V (0.17 - 0.23C) Consumable Electrode Vacuum Melted HP 9-4-20

HP 9-4-20 Standard Number		
ITEM	Standard Number	Descriptions
1	SAE AMS 6525D (2012)	Steel, Bars, Forgings, Tubing, and Rings 0.75Cr - 9.0Ni - 4.5Co - 1.0Mo - 0.09V (0.17 - 0.23C) Consumable Electrode Vacuum Melted
2	SAE AMS 6525	This specification covers a premium aircraft-quality, low-alloy steel in the form of bars, forgings, mechanical tubing, flash welded rings, and stock for forging or flash welded rings.
3	AMS 6523	This specification covers a premium aircraft-quality, low-alloy steel in the form of sheet, strip, and plate.

HP 9-4-20 Chemical composition(mass fraction)(wt.%)		
Chemical	Min.(%)	Max.(%)
C	0.17	0.23
Si		0.20
Mn	0.20	0.40
Ni		0.65
Cr	0.65	0.85



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Mo	0.90	1.10
Ni	8.50	9.50
V	0.06	0.12
P		0.01
S		0.01
Cu		0.35
Co	4.25	4.75

HP 9-4-20 Physical Properties

Tensile strength	115-234	?b/MPa
Yield Strength	23	? 0.2 ?/MPa
Elongation	65	?5? (%)
?	-	?? (%)
Akv	-	Akv?/J
HBS	123-321	-
HRC	30	-

HP 9-4-20 Mechanical Properties

Tensile strength	231-231	?b/MPa
Yield Strength	154	? 0.2 ?/MPa
Elongation	56	?5?(%)
?	-	??(%)
Akv	-	Akv?/J
HBS	235-268	-
HRC	30	-

HP 9-4-20 Heat Treatment Regime

Annealing	Quenching	Tempering	Normalizing	Q & T



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?	?	?	?	?
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HP 9-4-20 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	∅8-1200mm*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 Stainless Steels - Special Steels the specifications follows: