

This page is mainly introduced the AMS AM350 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of AMS AM350,such as it is commonly used in bars, sheet,plates, steel coils, steel pipes,forged and other materials application.

Datasheet for Steel Grades Specialsteel AMS AM350

AMS AM350 Standard Number:		
ITEM	Standard Number	Descriptions
1	SAE AMS 5745F (2008)	Steel, Corrosion and Heat-Resistant, Bars and Forgings 16.5Cr - 4.5Ni - 2.9Mo - 0.10N Equalized and Over-Tempered
2	SAE AMS 5554F (2011)	Steel, Corrosion and Heat-Resistant, Seamless Tubing 16.5Cr - 4.5Ni - 2.9Mo - 0.10N Annealed
3	SAE AMS 5548P (2007)	Steel, Corrosion and Heat-Resistant, Sheet and Strip 16.5Cr - 4.5Ni - 2.9Mo - 0.10N 1850 to 1975°F (1010 to 1079°C) Annealed
4	SAE AMS 5546D (1990)	Steel Sheet and Strip, Corrosion and Moderate Heat Resistant 16.5Cr - 4.5Ni - 2.9Mo - 0.10N Cold Rolled, Tempered
5	SAE AMS S 8840A (1999)	Steel Sheet and Strip, Corrosion-Resistant, Precipitation Hardening (AM350 and AM355), Premium Quality Composition AM350, Annealed Composition AM355, CRT 150/180/120
6	SAE J 467B (1968)	Special Purpose Alloys

AMS AM350 Chemical composition(mass fraction)(wt.%)									
Chemical		Min.(%)			Max.(%)				
C		0.0700			0.1100				
Mn		0.5000			1.2500				
P					0.0400				
S					0.0300				
Si					0.5000				
Ni		4.0000			5.0000				
Cr		16.0000			17.0000				
Mo		2.5000			3.2500				
N		0.0700			0.1300				
C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other

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Steel, Corrosion and Heat-Resistant, Bars and Forgings 16.5Cr - 4.5Ni - 2.9Mo - 0.10N Equalized and Over-Tempered

AMS AM350 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	-

AMS AM350 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	-

AMS AM350 Heat Treatment Regime				
Annealing	Quenching	Tempering	Normalizing	Q & T
√	√	√	√	√

AMS AM350 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: