

This page is mainly introduced the **HS 556 Datasheet**, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of **HS 556**, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Specialsteel HS 556

HS 556 Standard Number:		
ITEM	Standard Number	Descriptions
1	SAE AMS 5831C (2009)	Alloy, Corrosion and Heat-Resistant, Welding Wire 29Fe - 22Cr - 21Ni - 18.5Co - 3.2Mo - 2.8W - 0.78Ta 0.30Al - 0.05Zr - 0.05La - 0.20N

HS 556 Chemical composition(mass fraction)(wt.%)									
Chemical		Min.(%)				Max.(%)			
C		0.05				0.15			
Si		0.20				0.80			
Mn		0.50				2.00			
Ni		19.00				22.50			
Cr		21.00				23.00			
Al		0.10				0.50			
Cu									
Ti									
Fe						remaining			
Mo		2.50				4.00			
Co		16.00				21.00			
W		2.00				3.50			
C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other

Alloy, Corrosion and Heat-Resistant, Welding Wire 29Fe - 22Cr - 21Ni - 18.5Co - 3.2Mo - 2.8W -

0.78Ta 0.30Al - 0.05Zr - 0.05La - 0.20N

HS 556 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	-

HS 556 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	-

HS 556 Heat Treatment Regime

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

HS 556 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: