

**This page is mainly introduced the GH2302 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of GH2302, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.**

## Datasheet for Steel Grades Specialsteel GH2302

GH2302 Standard Number:		
ITEM	Standard Number	Descriptions
1	GB/T 14992 (2005)	Classification and designation for superalloys and high temperature intermetallic materials
2	GB/T 14993 (1994)	Hot-rolled heat-resisting superalloy bars for rotating parts
3	GB/T 14995 (2010)	Hot-rolled superalloy sheets
4	GB/T 14996 (2010)	Cold-Rolled heat-resisting superalloy sheets

GH2302 Chemical composition(mass fraction)(wt.%)									
Chemical		Min.(%)			Max.(%)				
C					0.08				
Cr		12.0			16.0				
Mo		1.50			2.50				
Ni		38.0			42.0				
W		3.50			4.50				
Al		1.80			2.80				
Ti		2.30			2.80				
Si					0.60				
Mn					0.60				
P					0.020				
S					0.010				
B					0.01				
Ce					0.02				
Zr					0.05				
C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other

## GH2302

### GH2302 Physical Properties

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

### GH2302 Mechanical Properties

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

### GH2302 Heat Treatment Regime

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

### GH2302 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

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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
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**We can produce Specialsteel the specifications follows:**