

**This page is mainly introduced the Ni Span C902 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of Ni Span C902, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.**

## Datasheet for Steel Grades Specialsteel Ni Span C902

### Ni Span C902 Standard Number:

ITEM	Standard Number	Descriptions
1	SAE AMS 5223F (2002)	Iron-Nickel Alloy, Strip, 49Fe - 5.3Cr - 42Ni - 2.5Ti - 0.55Al, Solution Heat Treated, Cold Rolled, 10% Reduction

### Ni Span C902 Chemical composition (mass fraction) (wt.%)

Chemical		Min.(%)					Max.(%)			
C							0.03			
Si										
Mn										
Cr							5.30			
Ni							42.50			
Mo										
Co										
W										
Al							0.50			
Cu										
Ti										
Fe							49.00			
C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta	
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other	

Iron-Nickel Alloy, Strip, 49Fe - 5.3Cr - 42Ni - 2.5Ti - 0.55Al, Solution Heat Treated, Cold Rolled,

10% Reduction

Ni Span C902 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	-

Ni Span C902 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	-

Ni Span C902 Heat Treatment Regime
------------------------------------

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

Ni Span C902 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:**