

**This page is mainly introduced the GX 5 CrNiMo 19-11-2 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of GX 5 CrNiMo 19-11-2, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.**

## Datasheet for Metals GX 5 CrNiMo 19-11-2

### GX 5 CrNiMo 19-11-2 Standard Number:

Area	Standard	Standard Code	Standard Year	Descriptions
Germany	DIN	DIN EN 10213	2007	Steel castings for pressure purposes

### GX 5 CrNiMo 19-11-2 Chemical composition (mass fraction) (wt.%)

Chemical	Min.(%)	Max.(%)	Similar (%)
Si	-	1.5000	-
S	-	0.0300	-
P	-	0.0400	-
Ni	9.0000	12.0000	-
Mo	2.0000	2.5000	-
Mn	-	1.5000	-
Cr	18.0000	20.0000	-
C	-	0.0700	-
Si	-	1.5000	-
S	-	0.0300	-
P	-	0.0400	-
Ni	9.0000	12.0000	-
Mo	2.0000	2.5000	-
Mn	-	1.5000	-
Cr	18.0000	20.0000	-
C	-	0.0700	-

### GX 5 CrNiMo 19-11-2 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	-

### GX 5 CrNiMo 19-11-2 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	-

### GX 5 CrNiMo 19-11-2 Heat Treatment Regime

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

### GX 5 CrNiMo 19-11-2 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	$\Phi 8$ -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 Metals the specifications follows:**