

This page is mainly introduced the GX120Mn13 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of GX120Mn13,such as it is commonly used in bars, sheet,plates, steel coils, steel pipes,forged and other materials application.

## Datasheet for Steel Grades Specialsteel GX120Mn13

GX120Mn13 Standard Number:		
ITEM	Standard Number	Descriptions
1	DIN EN 10349	Steel castings - Austenitic manganese steel castings
2	SEW 395	Non magnetizable steel casting. Technical delivery conditions

GX120Mn13 Chemical composition(mass fraction)(wt.%)									
Chemical		Min.(%)				Max.(%)			
C		1.10				1.30			
Si						0.50			
Mn		11.50				13.50			
P						0.060			
S						0.030			
Cr						0.50			
C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other

Steel castings - Austenitic manganese steel castings, 1-3802  
GX120Mn13

GX120Mn13 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	-

### GX120Mn13 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	-

### GX120Mn13 Heat Treatment Regime

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

### GX120Mn13 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 Specialsteel the specifications follows:**