

## Wear-resistant Steels and Castings

Name	Basic chemical composition						Properties	Equivalents
	%C	%Mn	%Ni	%Cr	%Mo	%V		
GX-280 Cr Mo Ni 20.2.1	2,80	0,80	0,90	20,00	2,00		>60 HRc	ASTM A532 CL II E
GX-340 Cr Mo 27.2	3,40	0,80		28,00	2,00	0,25	>62 HRc	
GX-300 Cr 13	3,00	0,60		13,00			>45 HRc	ASTM A532 CL II A
GX-200 Cr 13	1,80	0,30		13,00		<=2,00	>58 HRc	
GX-165 Cr Mo V 12	1,65	0,30		13,00	1,00		>58 HRc	
GX-300 Ni Cr 4.2	3,00	0,60	4,00	2,00			>54 HRc	ASTM A532 CL I A, B, C
GX-300 Cr Ni Si 9.5.2.	3,00	0,60	6,00	8,00			>58 HRc	ASTM A532 CL I D
GX 260 Cr 27	2,60	0,80		27			>55 HRc	ASTM A-532-CL III A

## Manganese Steels

Name	Basic chemical composition					Properties	Equivalents
	%C	%Mn	%Ni	%Cr	%Mo		
GX-120 Mn 12	1,20	12,00					ASTM A128 Grade A
GX-100 Mn 12	1,00	12,00					ASTM A128 Grade B1
GX-120 Mn Cr 12.2	1,30	13,00		2,00			ASTM A128 Grade C
GX-120 Mn Mo 12.1	1,20	12,00			1,00		ASTM A128 Grade E1
GX 120 Mn Cr Mo 7.1.1	1,20	8		1	1	R>70 Kg/mm <sup>2</sup>	
GX 150 Mn Cr 18-3	1,50	19		3		R>70 Kg/mm <sup>2</sup>	

## Refractory Steels

Name	Basic chemical composition					Properties	Equivalents
	%C	%Mn	%Ni	%Cr	%Nb		
GX-40 Cr Ni Si 25.12	0,3-0,5	0,5-1,5	11-14	24-26	-	1100°C	ASTM A297 HH
GX-40 Cr Ni Si 25.20	0,3-0,5	0,5-1,5	19-21	24-26	-	1150°C	ASTM A297 HK
GX-35 Ni Cr Si 37.17	0,2-0,5	0,3-1,5	36-39	16-19	-	1120°C	ASTM A297 HU
GX-45 Cr Si 29	0,3-0,6	0,5-1,0		27-30	-	1150°C	ASTM A297 HC
	<0,10	<0,30	REST	48-52	-	1050°C	ASTM A560-50/50
	<0,10	<0,30	REST	47-52	1,4-1,17	1000°C	ASTM A560-50Cr -50 Ni-Nb
	<0,10	<0,30	REST	58-62	-		ASTM A560-60/40
Z50 NCW 45-25 M	0,35-0,55	1,5	45	25	6	1200°C	AFNOR 32- O57