

## Cast Manganese Steels: Equivalents DIN, ISO 13521, JIS 5131 of ASTM A 128/A 128

ASTM A128	DIN	JIS 5131/ ISO 13521	C	Si max	Mn	P max	S max	Ni	Cr	Mo	V	Fe	Others
		SCMnH1	0.90-1.30		11-14	0.10	0.05	-	-	-	-	Balance	
		SCMnH2	0.90-1.20	0.80	11-14	0.07	0.04	-	-	-	-	Balance	
<b>B1, B2</b>	<b>GX 100 Mn13</b>	<b>SCMnH 2 x 1</b>	0.90-1.05	0.30-0.90	11-14	0.06	0.045	-	-	-	-	Balance	
<b>B1</b>	<b>GX 100 Mn13</b>	<b>SCMnH 2 x 2</b>	1.05-1.35	0.30-0.90	11-14	0.06	0.045	-	-	-	-	Balance	
		SCMnH3	0.90-1.20	0.30-0.80	11-14	0.05	0.035	-	-	-	-	Balance	
	<b>GX 120 Mn17</b>	<b>SCMnH4</b>	1.05-1.35	0.30-0.90	16-19	0.06	0.045	-	-	-	-	Balance	
<b>C</b>		SCMnH11	0.90-1.30	0.80	11-14	0.07	0.04	2.50	1.50	-	-	Balance	
<b>C</b>	<b>GX 120 MnCr 13-2</b>	<b>SCMnH 11x</b>	1.05-1.35	0.30-0.90	11-14	0.06	0.04	2.50	1.50	-	-	Balance	
	<b>GX 120 MnCr 17-2</b>	<b>SCMnH 12</b>	1.05-1.35	0.30-0.90	16-19	0.06	0.04	2.50	1.50	-	-	Balance	
		SCMnH 21	1.00-1.35	0.80	11-14	0.07	0.04	3.00	2.00	0.40	0.70	Balance	
<b>F</b>	<b>GX 120 MnMo 7-1</b>	<b>SCMnH 31</b>	1.05-1.35	0.80	6-8	0.06	0.045	0.90	-	1.20	-	Balance	
<b>E1</b>	<b>GX 120 MnMo 13-1</b>	<b>SCMnH 32</b>	0.75-1.35	0.30-0.90	11-14	0.06	0.045	0.90	-	1.20	-	Balance	
	<b>GX 90MnMo 14</b>	<b>SCMnH 33</b>	0.70-1.00	0.30-0.60	13-15	0.07	0.045	1.00	-	1.80	-	Balance	
<b>D</b>	<b>GX 120MnNi 13-3</b>	<b>SCMnH 41</b>	1.05-1.35	0.30-0.90	11-14	0.06	0.045	-	3-4	-	-	Balance	