

MATERIAL CONVERSION DINEN - GB (China)				Date: 02.03. 2010 Rev.: 07 elvo
Material Group / Typ	DINEN-Material	DINEN-Code	Designation GB-Code	Alternativ Material Additional Requirements / Remarks
Unalloyed Steels Steel Structure C/C-Mn	E360 (St 70-2)	10025-2	Q 390 C - GB 1591-94	
	S235JR (RSt 37-2)	10025-2 / 1652 / 2393	Q 235 B - GB 700-88	20 - GB 8162-87 (Rohr / Tube)
	S235J0 (St 37-3)	10025-2 / 1652 / 2393	Q 235 C - GB 700-88	
	S235J2 (St 37-3N)	10025-2 / 1652 / 2393	Q 235 D - GB 700-88	
	S275JR (St 44-2 N)	10025-2 / 1652 / 2393	16 Mn - GB 1591-88	16 MnR - GB 6654-96 / Q345B-GB1591
	S275J2 (St 44-3 N)	10025-2 / 1652 / 2393	Q 345 D - GB 1591-94	16Mn / 16MnR, Impact-KVmin. 27J / -20°C
	S355JR (St52-3)	10025-2 / 1652 / 2393	16 Mn - GB 1591-88	16 MnR - GB 6654-96 / Q345B-GB1591
	S355J0 (St52-3)	10025-2 / 1652 / 2393	Q 345 C - GB 1591-94	16Mn / 16MnR, Impact-KVmin. 27J / 0°C
	S355J2 (St52-3 N)	10025-2 / 1652 / 2393	Q 345 D - GB 1591-94	16Mn / 16MnR, Impact-KVmin. 27J / -20°C
	S355K2	10025-2	Q 345 E - GB 1591-94	Impact-KVmin. 27J / -40°C
	St35 / St 37.0	2391	Q 235 B - GB 700-88	20 - GB 8162-87
	P235 TR1 / P235 TR2	10216	20 - GB/T 3639	20 - GB 8162-87
	St 160	C-Steel	35 / 45 - GB 699-88	60 - GB 699-88
	E295 / E295GC	10025-2	35 - GB 699-88	Q275 - GB 700-88
	E355 / 1.0580 = P355T2 / 1.0581 old design. St 52.4 / 1.0581	10296-1 / 10297-1 DIN 1628 / 1630	16Mn - GB 8162-87	
Fine Graine Steels	S355N	10025-3	Q 345 D - GB 1591-88	
	S275NL / S355NL	10025-3	Q 345 E - GB 1591-88	
	S460N	10025-3	Q460 D - GB T1591-94	
	S460NL	10025-3	Q460 E - GB T1591-94	

MATERIAL CONVERSION DINEN - GB (China)				Date: 02.03. 2010 Rev.: 07 elvo
Material Group / Typ	DINEN-Material	DINEN-Code	Designation GB-Code	Alternativ Material Additional Requirements / Remarks
Steel Casting	GS-38 / GE-200	1681 / DINEN 10293	ZG 200-400 - GB 11352-89	
	GS 45 / GE-240 (GS-240)	1681 / DINEN 10293	ZG 230-450 - GB 11352-89	
	GS-52	1681	ZG 310-570 - GB 11352-89	ZG 270-500 - GB 11352-89
	GS-60 / GE-300	1681 / DINEN 10293	ZG 310-570 - GB 11352-89	ZG 340-640 - GB 11352-89
	GS-20Mn5+QT	17182	ZG20SiMn - JB T 6402-92	
	G-17CrMo 5-5+QT	10213-2	ZG 20CrMo - JB/T 6402-92	JB/T 7024-93
	G-17CrMoV 5-10+QT	10213-2	ZG 15Cr1Mo1V - JB/T 6402-92	JB/T 7024-93
Spheroidal Graphite Cast Iron	EN-GJL-200 / Hämatit	1561	HT 200 - GB 9439-88	
	EN-GJL-300 (GGL-30)	1561	HT3-54HT 300 - GB 9439-88	
	GJS-400-15U (GGG 40)	1563	QT 400-15 - GB 1348-88	
	GJS-500-7U (GGG 50)	1563	QT 500-7 - GB 1348-88	
	GJS-600-3U (GGG 60)	1563	QT 600-3 - GB 1348-88	
	GJS-700-2U (GGG 70)	1563	QT 700-2 - GB 1348-88	
	Hämatit (~GGG 40)		QT 400 - GB 1348-88	

MATERIAL CONVERSION DINEN - GB (China)				Date: 02.03. 2010 Rev.: 07 elvo
Material Group / Typ	DINEN-Material	DINEN-Code	Designation GB-Code	Alternativ Material Additional Requirements / Remarks
High Temperature Steels C-Mn / Mo / CrMo	St 35.8 / P235 G1TH	17175	20 - GB 3087-99	20G - GB 5310-95
	St 45.8	17175		
	P 235 GH	10028-2	20g - GB 713-86	16 MnR - GB 6654-96
	P 265 GH	10028-2	16 MnR - GB 6654-96	
	P 295 GH	10028-2		
	P 275 NH / P 355 NH	10028-3	16MnR / Q345D (Plate) 20MnMo (Forg.)	Proof Strength at elevated temp. required Impact-KV min. 20J / -20°C (transverse)
	P 460 NH	10028-3	20MnMoNb - YZB 262-89 (Forg.) 18MnMoNb - JB/T6396	Q460E-GB/T1591; Proof Strength at elevated Temperatures required
	16 Mo 3	10028-2	15MoG	
	13 CrMo 4-5	10028-2	15CrMoG	
	P 275 NL1 / NL2 P 355 NL1 / NL2	10028-3	Q 345 E - GB1591	Impact-KV min. 27J / -40°C (transverse)
	SM		No equivalent	See Attachment 1
Case Hardening Steels	16MnCr5	10084	20CrMnTi - GB 3077-88	15CrMn - Gb 3077-88
	20MnCr5	10084	20CrMnTi - GB 3077-88	
	18CrNiMo7-6	10084	17Cr2Ni2Mo - JB/T 6396-92	

MATERIAL CONVERSION DINEN - GB (China)				Date: 02.03. 2010 Rev.: 07 elvo
Material Group / Typ	DINEN-Material	DINEN-Code	Designation GB-Code	Alternativ Material Additional Requirements / Remarks
Quenched and Tempered Steels C / CrMo / CrNiMo	C 15	10083	15 - GB 699-88	QT (Quenched and Tempered)
	C 22	10083	20 - GB 699-88	QT (Quenched and Tempered)
	C 35 (St 50-2)	10083	35 - GB 699-88	QT (Quenched and Tempered)
	C 45	10083	45 - GB 699-88	QT (Quenched and Tempered)
	C 55	10083	55 - GB 699-88	QT (Quenched and Tempered)
	C 60	10083	60 - GB 699-88	QT (Quenched and Tempered)
	C 75	DIN 17222	75 - GB 699-88	QT (Quenched and Tempered)
	25 CrMo 4	10083 / 10250-3	30CrMo - GB 3077-88 25CrMo - JB/T 6396-92	QT (Quenched and Tempered)
	34 CrMo 4	10083 / 10250-3	35CrMo - GB 3077-88	QT (Quenched and Tempered)
	42 CrMo 4	10083 / 10250-3	42CrMo - GB 3077-88	QT (Quenched and Tempered)
	50 CrMo 4	10083 / 10250-3	50CrMo - GB (EBZ) 1184-93	QT (Quenched and Tempered)
	34 CrNiMo 6	10083 / 10250-3	34CrNi3Mo - GB (EBZ) 1184-93	QT (Quenched and Tempered)
	30 CrNiMo 8	10083 / 10250-3	30Cr2Ni2Mo - GB (EBZ)1184-93	QT (Quenched and Tempered)
	30CrMoV9	10297-1	35CrMoV - GB 3077-88	QT (Quenched and Tempered)
	41 Cr 4	10083-3	40Cr - GB 3077-88	QT (Quenched and Tempered)
	100Cr6	DIN 17221 / 17230	GCr15 - YB(T)1	
	56 Si 7		60Si2Mn	

MATERIAL CONVERSION DINEN - GB (China)				Date: 02.03. 2010 Rev.: 07 elvo
Material Group / Typ	DINEN-Material	DINEN-Code	Designation GB-Code	Alternativ Material Additional Requirements / Remarks
Stainless Steels High alloyed CrNi	X 20 Cr 13	10088	2Cr13 - GB 1220-92	
	X 10 Cr 13	10088	1Cr13 - GB 1220-92	
	X 5 CrNi 18-10 (1.4301)	10088/DIN17456 - 458	0Cr18Ni9 - GB 1220-92	1Cr18Ni9
	X 5 CrNiMo 17-12-2 (1.4401)	10088 (1.4436) "	0Cr17Ni12Mo2 - GB 1220-92	
	X 2 CrNiMo 17-12-2 (1.4404)	10088 (1.4435) "	00Cr17Ni14Mo2-GB 1220-92	
	X 2 CrNiMoN 17-13-3 (1.4429)	10088/DIN17456 - 458	00Cr17Ni14Mo2N-GB 1220-92	
	X 2 CrNiMoN 17-13-5 (1.4439)	10088/DIN17456 - 458		
	X 6 CrNiTi 18-10 (1.4541)	10088/DIN17456 - 458	0Cr18Ni10Ti - GB 1220-92	0Cr18Ni10Ti - GB T 14975-94
	X 6 CrNiNb 18-10 (1.4550)	10088/DIN17456 - 458	0Cr18Ni11Nb - GB 1220-92	
	X 6 CrNiMoTi 17-12-2 (1.4571)	10088/DIN17456 - 458	0Cr18Ni12Mo2Ti - GB T 1220-92	0Cr18Ni12Mo2Ti - GB T 14975-94
	X15 CrNiSi20-12 / 1.4828	SEW 470	1Cr20Ni14Si2 - GB	
	X6NiCrTiMoVB 25-15-2 / 1.4980	10269, 10302	0Cr15Ni25Ti2MoAlVB	
	X17CrNi16-2 / X20CrNi 17-2	10250 (10088)	1Cr17Ni2 - GB 1220-92	QT (Quenched and Tempered)

MATERIAL CONVERSION DINEN - GB (China)				Date: 02.03. 2010 Rev.: 07 elvo
Material Group / Typ	DINEN-Material	DINEN-Code	Designation GB-Code	Alternativ Material Additional Requirements / Remarks
Non Ferrous Material	SE-Cu		Tp1	
	CuSn7Zn4Pb7-C-GZ		ZCuSn7Zn4Pb6 - EZB 1179-93	ZCuSn6Zn3Pb6 - EZB 1179-93
	G-CuSn12 / G-CuSn12Pb		ZCuSn10Pb1	ZCuSn12Pb1
	CuZn39Pb2		ZHMn 58-22	
	CuZn 37	DINEN 12449	H 62	
	G-CuSn7ZnPb		ZCuSn7Zn4Pb6 - EZB 1179-93	
	SINT B50		Standard Bearing Material of FAG	FAG - Company / Devision-Shanghai
	HCuSn8613/8-1		Standard Bearing Material of DEVA	See Attachment 2
Screws unalloyed C	Festigkeit 4.8	DIN 267		
unalloyed C-Mn	Festigkeit 5.8	DIN 267		
alloyed CrMo	Festigkeit 8.8 z.B.42CrMo4	DIN 267		
alloyed CrNiMo	Festigkeit 10.9 z.B.30CrNiMo8	DIN 267		
Structural Steels with improved atmospheric corrosion resistance	S355J2W	DINEN 10025-5	Q345NH - GB/T 4172 - 2000	
	S355J0WP	DINEN 10025-5	Q345GNHL - GB/T 4171 - 2000	