

German					Chinese				
Material designation Basis SN359	Material No.	Former designation	Standard	Remark	Material designation	Standard	Title	Remark	Matching of properties:
<b>Engineering steels</b>					<b>Engineering steels</b>				
E295	1. 0050	St 50-2	DIN EN 10025-2	-	Q275 Z	GB 700-88	Unalloyed engineering steels	C content 0.28 to 0.38%, only limited weldability, = Fully killed steel only is permissible, Z	identical
E335	1. 0060	St 60-2	DIN EN 10025-2	-	Q 345 C	GB T 1591-94	High strength low alloy structural steels		identical
E360	1. 0070	St 70-2	DIN EN 10025-2	-	Q 390 C	GB T 1591-94	High strength low alloy structural steels		identical
S235JR	1. 0038	R St 37-2 S235JRG2	DIN EN 10025-2	KV at room temperature, unkilled not permitted	Q 235 B Q 235 D	GB 700-88 GB 700-88	Unalloyed engineering steels Unalloyed engineering steels	Fully killed steel only is permissible	similar identical
S275JR	1. 0044	St 44-2 S275JRG2	DIN EN 10025-2	KV at room temperature, unkilled not permitted	Q 275 Z	GB 700-88	Unalloyed engineering steels	C content must be limited to 0.22%, otherwise only limited weldability, notch impact energy not guaranteed.	similar
S355J2	1. 0577	St 52-3N S355J2G3	DIN EN 10025-2	KV at -20°C, fully killed steel	Q 345 D	GB T 1591-94	High strength low alloy structural steels	Fully killed steel only is permissible	similar
S355JR	1. 0045	-	DIN EN 10025-2	KV at room temperature, unkilled not permitted	Q 345 C	GB T 1591-94	High strength low alloy structural steels	Fully killed steel only is permissible, only at room temperature, KV	identical
S235J0	1. 0114	St 37-3 U	DIN EN 10025 (invalid)	KV at 0°C	Q 235 C	GB 700-88	Unalloyed engineering steels	Fully killed steel only is permissible, at 0°C, KV	similar
S235J0C	1. 0115	Q St 37-3U	DIN EN 10025 (invalid)	KV at 0°C, suitable for cold forming,	Q 235 C	GB 700-88	Unalloyed engineering steels	Fully killed steel only is permissible, at 0°C, KV	similar
S235J2G3	1. 0116	St 37-3N	DIN EN 10025 (invalid)	KV at -20°C, fully killed steel	Q 235 D	GB 700-88	Unalloyed engineering steels	Fully killed or double-killed steel only is permissible, KV at -20°C,	similar
S235J2G3C	1. 0118	Q St 37-3N	DIN EN 10025 (invalid)	KV at -20°C, fully killed steel, suitable for cold forming,	Q 235 D	GB 700-88	Unalloyed engineering steels	Fully killed or double-killed steel only is permissible, KV at -20°C,	similar
S235J2G4	1. 0117	-	DIN EN 10025 (invalid)	KV at -20°C, fully killed steel	Q 235 D	GB 700-88	Unalloyed engineering steels	Fully killed or double-killed steel only is permissible, KV at -20°C,	similar
S235JR	1. 0037	St 37-2	DIN EN 10025 (invalid)	KV at room temperature,	Q 235 A Q 235 B	GB 700-88	Unalloyed engineering steels	Z = killed only is permissible	do not use similar
S235JRG1	1. 0036	U St 37-2	DIN EN 10025 (invalid)	KV at room temperature, unkilled	Q 235 A Q 235 B	GB 700-88	Unalloyed engineering steels		do not use similar
S235JRG1C	1. 0121	UQ St 37-2	DIN EN 10025 (invalid)	KV at room temperature, unkilled, suitable for cold forming,	Not known				
S275J0	1. 0143	St 44-3	DIN EN 10025 (invalid)	KV at 0°C	Q 275	GB 700-88	Unalloyed engineering steels	C content must be limited to 0.22%, notch impact energy not guaranteed.	do not use
S275J0C	1. 0140	Q St 44-3U	DIN EN 10025 (invalid)	KV at 0°C, suitable for cold forming,	Q 275	GB 700-88	Unalloyed engineering steels	C content must be limited to 0.22%, notch impact energy not guaranteed.	do not use
S275J2G3	1. 0144	St 44-3N	DIN EN 10025 (invalid)	KV at -20°C, fully killed steel	Q 275	GB 700-88	Unalloyed engineering steels	C content must be limited to 0.22%, notch impact energy not guaranteed.	do not use

**German**

**Chinese**

Material designation Basis SN359	Material No.	Former designation	Standard	Remark	Material designation	Standard	Title	Remark	Matching of properties:
<b>S275J2G3C</b>	1. 0141	Q St 44-3N	DIN EN 10025 (invalid)	KV at -20°C, fully killed steel, suitable for cold forming,	<b>Q 275</b>	GB 700-88	Unalloyed engineering steels	C content must be limited to 0.22%, notch impact energy not guaranteed.	<b>do not use</b>
<b>S275J2G4</b>	1. 0145	-	DIN EN 10025 (invalid)	KV at -20°C, fully killed steel	<b>Q 275</b>	GB 700-88	Unalloyed engineering steels	C content must be limited to 0.22%, notch impact energy not guaranteed.	<b>do not use</b>
<b>S275JRC</b>	1. 0128	Q St 44-2	DIN EN 10025 (invalid)	KV at room temperature, suitable for cold forming,	<b>Q 275</b>	GB 700-88	Unalloyed engineering steels	C content must be limited to 0.22%, notch impact energy not guaranteed.	<b>do not use</b>
<b>S355J0</b>	1. 0553	-	DIN EN 10025 (invalid)	KV at 0°C	<b>16Mn</b>	GB 1591-88	High strength low alloy structural steels	<b>KV only at room temperature, Z= Fully killed steel only is permissible</b>	<b>similar</b>
<b>S355J2G3C</b>	1. 0569	-	DIN EN 10025 (invalid)	KV at -20°C, fully killed steel, suitable for cold forming,	<b>16Mn</b>	GB 1591-88	High strength low alloy structural steels	<b>KV only at room temperature, Z= Fully killed steel only is permissible</b>	<b>similar</b>
<b>Fine-grained engineering steels, weldable</b>					<b>Fine-grained engineering steels, weldable</b>				
<b>S355N</b>	1. 0545	StE 355	DIN EN 10025-3	normalised, KV at -20°C,	<b>Q 345 D</b>	GB T 1591-94	High strength low alloy structural steels	<b>KV at -20°C</b>	<b>similar</b>
<b>S355NL</b>	1. 0546	TStE 355	DIN EN 10025-3	normalised KV at -50°C,	<b>Q 345 E</b>	GB T 1591-94	High strength low alloy structural steels	<b>KV at -40°C !</b>	<b>similar</b>
<b>S420N</b>	1. 8902	StE 420	DIN EN 10025-3	normalised KV at -20°C,	<b>Q 420 D</b>	GB T 16270-96	High-strength engineering-steel sheet/plate and strip products, heat-treated or produced by controlled rolling	<b>KV at -20°C !</b>	<b>similar</b>
<b>S420NL</b>	1. 8912	TStE 420	DIN EN 10025-3	normalised KV at -50°C,	<b>Q 420 E</b>	GB T 16270-96	High-strength engineering-steel sheet/plate and strip products, heat-treated or produced by controlled rolling	<b>KV at -40°C !</b>	<b>similar</b>
<b>S460N</b>	1. 8901	StE 460	DIN EN 10025-3	normalised KV at -20°C,	<b>Q 460 D</b>	GB T 1591-94	High strength low alloy structural steels	<b>KV at -20°C !</b>	<b>similar</b>
<b>S460NL</b>	1. 8903	TStE 460	DIN EN 10025-3	normalised KV at -50°C,	<b>Q 460 E</b>	GB T 1591-94	High strength low alloy structural steels	<b>KV at -40°C !</b>	<b>similar</b>
<b>Bright steel products for general engineering purposes</b>					<b>Bright steel products for general engineering purposes</b>				
<b>C45 +C or +SH</b>	1. 0503	C 45	DIN EN 10277-2	Bright steel products, +C = cold drawn +SH = as rolled and turned	<b>45</b>	GB 699-88	Quality carbon structure steel	Z = killed only is permissible	<b>similar</b>
<b>C15 +C or +SH</b>	1. 0401	C15	DIN EN 10277-2		<b>15</b>	GB 699-88	Quality carbon structure steel	Z = killed only is permissible	<b>similar</b>
<b>E 295GC +C or +SH</b>	1. 0533	St 50-2 KG	DIN EN 10277-2		<b>Q 275</b>	GB 700-88	Unalloyed engineering steels		<b>similar</b>
<b>Sheets</b>					<b>Sheets</b>				
<b>DC01</b>	1. 0330	St 12	DIN EN 10130		<b>08F</b>	GB 699-88	Plain carbon quality steel	Sameness must be checked in every case	<b>similar</b>
<b>Pipes, tubes</b>					<b>Pipes, tubes</b>				
<b>P235TR1</b>	1. 0254	<b>St 37.0</b>	DIN EN 10216-1	normalised	<b>20</b>	GB 8163-87	Seamless tubes for transport of liquids	<b>Limit C content to 0.17%</b>	<b>similar</b>
					<b>20</b>	GB 8162-87	Seamless tubes for structures	<b>Limit C content to 0.17%</b>	<b>similar</b>
<b>P235GH</b>	1. 0345	<b>St 35.8</b>	DIN EN 10216-2	normalised	<b>20</b>	GB 8162-87	Seamless tubes for structures	<b>Limit C content to 0.17%</b>	<b>similar</b>
<b>P355N</b>	1.0562	<b>StE 355</b>	DIN EN 10216-3	normalised	<b>16Mn</b>	GB 6479-86	Seamless steel tubes for equipment of chemical industry for high pressure service	<b>Limit C content to 0.17%</b>	<b>similar</b>
					<b>16Mn</b>	GB 8162-87	Seamless steel tubes for structural purposes	<b>Limit C content to 0.17%</b>	<b>similar</b>
					<b>16Mn</b>	GB 8163-87	Seamless steel pipes for liquid service	<b>Limit C content to 0.17%</b>	<b>similar</b>
					<b>16Mn</b>	GB/T 8164-87	Strips for welding stel pipe	<b>Limit C content to 0.17%</b>	<b>similar</b>
<b>E235</b>	1.0308	-	DIN EN 10305-4	normalised	<b>20</b>	GB 8162-87	Seamless tubes for structures	<b>Limit C content to 0.17%</b>	<b>similar</b>
<b>St 37.4 NBK</b>	1. 0255	<b>St 37.4 NBK</b>	DIN 2391	normalised	<b>20</b>	GB 8163-87	Seamless tubes for transport of liquids	<b>Limit C content to 0.17%</b>	<b>similar</b>
					<b>20</b>	GB 8162-87	Seamless tubes for structures	<b>Limit C content to 0.17%</b>	<b>similar</b>

German					Chinese				
Material designation Basis SN359	Material No.	Former designation	Standard	Remark	Material designation	Standard	Title	Remark	Matching of properties:
<b>Tubes in stainless steels</b>					<b>Tubes in stainless steels</b>				
X2CrNiMo 17-12-2	1.4404	-	DIN EN 10216-5 DIN EN 10217-7	austenitised	0Cr18Ni12Mo2Ti	GB T 14975-94	Seamless tubes		similar
					0Cr18Ni12Mo2Ti	GB T 14976-94	Seamless tubes for liquids		similar
					1Cr18Ni12Mo2Ti	GB 13296-91	Seamless boiler and heat exchanger tubes (austenitic)		similar
X6CrNiTi18-10	1.4541	X10CrNiTi 18 9	DIN EN 10216-5 DIN EN 10217-7	austenitised	0Cr18Ni10Ti	GB 13296-91	Seamless boiler and heat exchanger tubes (austenitic)		similar
					0Cr18Ni10Ti	GB T 14975-94	Seamless tubes		similar
					0Cr18Ni10Ti	GB T 14976-94	Seamless tubes for liquids		similar
					0Cr18Ni10Ti	GB 12771-91	Welded pipes for transport of liquids		similar
					0Cr18Ni10Ti	GB 13296-91	Seamless boiler and heat exchanger tubes (austenitic)		similar
X6CrNiMoTi17-12-2	1.4571	X10CrNiMoTi 18 10	DIN EN 10216-5 DIN EN 10217-7	austenitised	0Cr18Ni12Mo2Ti	GB T 14975-94	Seamless tubes		similar
					0Cr18Ni12Mo2Ti	GB T 14976-94	Seamless tubes for liquids		similar
					1Cr18Ni12Mo2Ti	GB 13296-91	Seamless boiler and heat exchanger tubes (austenitic)		similar
<b>Quenched and tempered steels, unalloyed</b>					<b>Quenched and tempered steels, unalloyed</b>				
C22 +N	1.0402	C 22 N	DIN EN 10083-2	normalised	20	GB 699-88	Quality carbon structure steel	Z = killed only is permissible	identical
C35 +N	1.0501	C 35 N	DIN EN 10083-2	normalised	35	GB 699-88	Quality carbon structure steel	Z = killed only is permissible	identical
C35 +QT	1.0501	C 35 V	DIN EN 10083-2	quenched & tempered	35	GB 699-88	Quality carbon structure steel	Z = killed only is permissible, Agreement required for QT instead of normalising.	similar
C35E +QT	1.1181	Ck 35 V	DIN EN 10083-1	quenched & tempered	35	GB 699-88	Quality carbon structure steel	Z = killed only is permissible, Agreement required for QT instead of normalising. Yield point at small nom. thickness differs from European material.	similar
C45 +N	1.0503	C 45 N	DIN EN 10083-2	normalised	45	GB 699-88	Quality carbon structure steel	Z = killed only is permissible	identical
C45 +QT	1.0503	C 45 V	DIN EN 10083-2	quenched & tempered	45	GB 699-88	Quality carbon structure steel	Z = killed only is permissible, Agreement required for QT instead of normalising.	similar
C45E +QT	1.1191	Ck 45 V	DIN EN 10083-1	quenched & tempered	45	GB 699-88	Quality carbon structure steel	Z = killed only is permissible, Agreement required for QT instead of normalising. Yield point at small nom. thickness differs from European material.	similar
C55 +QT	1.0535	C 55 V	DIN EN 10083-2	quenched & tempered	55	GB 699-88	Quality carbon structure steel	Z = killed only is permissible, Agreement required for QT instead of normalising.	similar
C55E +QT	1.1203	Ck 55 V	DIN EN 10083-1	quenched & tempered	55	GB 699-88	Quality carbon structure steel	Z = killed only is permissible, Agreement required for QT instead of normalising. Yield point at small nom. thickness differs from European material.	similar
C60 +N	1.0601	C 60 N	DIN EN 10083-2	normalised	60	GB 699-88	Quality carbon structure steel	Z = killed only is permissible	identical
<b>Flame hardening steels</b>					<b>Flame hardening steels</b>				
Cf 35 V	1.1183.05	Cf 35 V	DIN 17212	quenched & tempered	35	GB 699-88	Plain carbon quality steel	Z = killed only is permissible, Agreement required for QT instead of normalising.	similar
Cf 45 V	1.1193.05	Cf 45 V	DIN 17212	quenched & tempered	45	GB 699-88	Plain carbon quality steel	Z = killed only is permissible, Agreement required for QT instead of normalising.	similar
Cf 55 V	1.1213.05	Cf 55 V	DIN 17212	quenched & tempered	55	GB 699-88	Plain carbon quality steel	Z = killed only is permissible, Agreement required for QT instead of normalising.	similar
<b>Quenched and tempered steels, alloyed</b>					<b>Quenched and tempered steels, alloyed</b>				

沧州天硕联轴器有限公司，是专业从事胀紧联结套、机械传动和机械密封研究、生产的企业。

German					Chinese				
Material designation Basis SN359	Material No.	Former designation	Standard	Remark	Material designation	Standard	Title	Remark	Matching of properties:
25CrMo4+QT	1.7218	25 CrMo 4 V	DIN EN 10083-1	quenched & tempered	30CrMo	GB 3077-88	Alloyed structural steels	Heat treatment strength to be agreed upon	similar
42CrMo4+QT	1.7225	42 CrMo 4 V	DIN EN 10083-1	quenched & tempered	42CrMo	GB 3077-88	Alloyed structural steels	Heat treatment strength to be agreed upon	similar
50CrMo4+QT	1.7228	50 CrMo 4 V	DIN EN 10083-1	quenched & tempered	50CrMo	EZB 1184-93	(Title not known)		
34CrNiMo6+QT	1.6582	34 CrNiMo 6 V	DIN EN 10083-1	quenched & tempered	34CrNi3Mo	EZB 1184-93	(Title not known)		
30CrNiMo8+QT	1.6580	30 CrNiMo 8 V	DIN EN 10083-1	quenched & tempered	30Cr2Ni2Mo	EZB 1184-93	(Title not known)		
<b>Case hardening steels</b>					<b>Case hardening steels</b>				
16MnCr5+TH	1.7131	16 MnCr 5 BF	DIN EN 10084		20CrMnTi	GB 3077-88	Alloyed structural steels		similar
					16MnCr	JB T 6396-92	Large forged piece of alloyed structural steel		similar
20MnCr5+TH	1.7147	20 MnCr 5 BF	DIN EN 10084		20CrMnTi	GB 3077-88	Alloyed structural steels		similar
					20MnCr	JB T 6396-92	Large forged piece of alloyed structural steel		similar
18CrNiMo7-6	1.6587	17 CrNiMo 6 BF	DIN EN 10084		17Cr2Ni2Mo	JB/T 6396-92 EZB 1187-93	Large forged piece of alloyed structural steel		similar
<b>Heat-resisting steels</b>					<b>Heat-resisting steels</b>				
X20CrMoV11-1	1.4922	X 22 CrMoV 12 1	DIN EN 10222-2		1Cr11MoV	GB 1221-92	Heat-resisting steels		similar
<b>Tool steel</b>					<b>Tool steel</b>				
60WCrV 7	1.2550	60 WCrV7	DIN EN ISO 4957		6 Cr W 2 Si	GB 1299-85	Alloyed cold work steel		similar
102Cr6	1.2067	100Cr6	DIN EN ISO 4957		Cr2	GB 1299-85	Alloyed cold work steel		similar
<b>Steels for forgings</b>					<b>Steels for forgings</b>				
X20CrMoV11-1	1.4922	X 20 CrMoV 12 1	DIN EN 10222-2		1Cr11MoV	GB 1221-92	Heat-resisting steels		similar
S355J2G3	1.0570	St 52-3	DIN EN 10250-2		20	GB 699-88	Quality carbon structure steel	Notch impact energy not guaranteed	do not use
					16MnDR	GB 3531-96	Plate for pressure vessels for use at low temperatures		similar
C22	1.0402	C 22	DIN EN 10250-2		20Mn2	GB 3077-88	Alloyed structural steels		similar
20Mn5	1.1133	20 Mn 5	DIN EN 10250-2		20	GB 699-88	Quality carbon structure steel	Z = killed only is permissible	similar
C35E	1.1181	Ck 35	DIN EN 10250-2		20Mn2	GB 3077-88	Alloyed structural steels		similar
C45E	1.1191	Ck 45	DIN EN 10250-2		35	GB 699-88	Quality carbon structure steel	Z = killed only is permissible	identical
					45	GB 699-88	Quality carbon structure steel	Z = killed only is permissible	identical
					45H	GB 5216-85	Structural steels with defined hardenability scatterband		similar
C60E	1.1221	Ck 60	DIN EN 10250-2		60	GB 699-88	Quality carbon structure steel	Z = killed only is permissible	identical
25CrMo4	1.7218	25 CrMo 4	DIN EN 10250-3		30CrMo	GB 3077-88	Alloyed structural steels		similar
34CrMo4	1.7220	34 CrMo 4	DIN EN 10250-3		35CrMo	GB 3077-88	Alloyed structural steels		similar
42CrMo4	1.7225	42 CrMo 4	DIN EN 10250-3		42CrMo	GB 3077-88	Alloyed structural steels		similar
50CrMo4	1.7228	50 CrMo 4	DIN EN 10250-3		50CrMo	EZB 1184-93	Title not known		similar
30CrNiMo8	1.6580	30 CrNiMo 8	DIN EN 10250-3		30Cr2Ni2Mo	EZB 1184-93	Title not known		similar
					34CrNi3Mo	Not known			
34CrNiMo6	1.6582	34 CrNiMo 6	DIN EN 10250-3		34CrNiMo	EZB 1184-93	Title not known		similar
33NiCrMoV14-5	1.6956	33 NiCrMoV 14 5	DIN EN 10250-3		Not known	Not known			
X20Cr13	1.4021	X 20 Cr 13	DIN EN 10250-4		2Cr13	GB 1220-92	Stainless steels (austenitic)		similar
					2Cr13	GB 1221-92	Heat-resisting steels (austenitic)		similar
					2Cr13	GB 8732-88	Steel for steam turbine blades		similar
					SM 2Cr13	YB 094-97	Slabs for plastic moulds		similar
X17CrNi16-2	1.4057	X 17 CrNi 16 2	DIN EN 10250-4		1Cr17Ni2	GB 1220-92	Stainless steels (austenitic)		similar
					1Cr17Ni2	GB 1221-92	Heat-resisting steels (austenitic)		similar
X4CrNi18-10	1.4301	X 5 CrNi 18 9	DIN EN 10250-4		0Cr18Ni9	GB T 1220-92	Stainless steel bar		
X6CrNiTi18-10	1.4541	X 10 CrNiTi 18 9	DIN EN 10250-4		0Cr18Ni10Ti	GB 1220-92	Stainless steels (austenitic)		
					0Cr18Ni10Ti	GB 1221-92	Heat-resisting steels (austenitic)		
X6CrNiMoTi17-12-2	1.4571	X 10 CrNiMoTi 18 10	DIN EN 10250-4		0Cr18Ni12Mo2Ti	GB 1220-92	Stainless steels (austenitic)		



German					Chinese				
Material designation Basis SN359	Material No.	Former designation	Standard	Remark	Material designation	Standard	Title	Remark	Matching of properties:
X5CrNiMo17-12-2	1.4401	X 5 CrNiMo17 12 2	DIN EN 10250-4		0Cr17Ni12Mo2	GB 1220-92	Stainless steels (austenitic)		
X4CrNiMo16-5-1	1.4418	-	DIN EN 10250-4		0Cr17Ni12Mo2	GB 1221-92	Heat-resisting steels (austenitic)		
					Not known	Not known			
<b>Stainless steels</b>					<b>Stainless steels</b>				
X20Cr13	1.4021	X 20 Cr 13	DIN 17440 DIN EN 10088-1 to 3		X20Cr13	GB 1220-92	Stainless steels (austenitic)		
X17CrNi16-2	1.4057	X 17 CrNi 16 2	DIN 17440 DIN EN 10088-1 to 3		1Cr17Ni2	GB 1220-92	Stainless steels (austenitic)		
					1Cr17Ni2	GB 1221-92	Heat-resisting steels (austenitic)		
					1Cr17Ni2	GB 3280-92	Cold-rolled plate and strip (austenitic)		
					1Cr17Ni2	GB 4356-84	Wire in rod shape		
					1Cr17Ni2 (-R)	GB T 4240-93	Wire		
					1Cr17Ni2	GB T 4231-93	Cold-rolled strip in stainless steel for springs		
					ML1Cr17Ni2	GB 4232-93	Wire for cold heading		
X39CrMo17-1	1.4122	X 39 CrMo 17 1	DIN 17440 DIN EN 10088-1 to 3		Not known	Not known			
X4CrNi18-10	1.4301	X 5 CrNi 18 9	DIN 17440 DIN EN 10088-1 to 3		0Cr18Ni9	GB 1220-92	Stainless steels (austenitic)		
X5CrNiMo17-12-2	1.4401	X 5 CrNiMo17 12 2	DIN 17440 DIN EN 10088-1 to 3		0Cr17Ni12Mo2	GB 1220-92	Stainless steels (austenitic)		
X6CrNiTi18-10	1.4541	X 10 CrNiTi 18 9	DIN 17440 DIN EN 10088-1 to 3		0Cr18Ni10Ti	GB 1220-92	Stainless steels (austenitic)		
					0Cr18Ni10Ti	GB 1221-92	Heat-resisting steels (austenitic)		
					0Cr18Ni10Ti	GB 3280-92	Cold-rolled sheet/plate and strip (austenitic)		
					0Cr18Ni10Ti	GB 4237-92	Hot-rolled sheet/plate and strip in stainless steel (austenitic)		
					0Cr18Ni10Ti	GB 4238-92	Hot-rolled sheet/plate in heat-resisting steel (austenitic)		
					0Cr18Ni10Ti	GB 13296-91	Seamless boiler and heat exchanger tubes (austenitic)		
					0Cr18Ni10Ti	GB T 14975-94	Seamless tubes		
					0Cr18Ni10Ti	GB T 14976-94	Seamless tubes for liquids		
					0Cr18Ni10Ti	GB 4356-84	Wire in rod shape		
					0Cr18Ni10Ti	GB 12771-91	Welded pipes for transport of liquids		
					0Cr18Ni10Ti (-Q,-R)	GB T 4240-93	Wire		
					1Cr18Ni11Ti	GB 13296-91	Seamless boiler and heat exchanger tubes (austenitic)		
					H0Cr20Ni10Ti	YB T 5092-96	Stainless steel wire for welding		
X6CrNiMoTi17-12-2	1.4571	X 10 CrNiMoTi 18 10	DIN 17440 DIN EN 10088-1 to 3		0Cr18Ni12Mo2Ti	GB T 4237-92	Hot rolled stainless steel sheets and plates		
<b>Grey cast iron</b>					<b>Grey cast iron</b>				
EN-GJL-200	EN-JL1030	GGL-20	DIN EN 1561	-	HT20 - 40	GB 9439-88	Grey iron castings		identical
					HT 200	Not known			
EN-GJL-250	EN-JL1040	GGL-25	DIN EN 1561	-	HT25 - 47	GB 9439-88	Grey iron castings		identical
					HT 250	Not known			
EN-GJL-300	EN-JL1050	GGL-30	DIN EN 1561	-	HT3 - 54	GB 9439-88	Grey iron castings		identical
					HT 300	Not known			
<b>Spheroidal graphite cast iron</b>					<b>Spheroidal graphite cast iron</b>				
GJS-400-18U	1062	GGG-40	DIN EN 1563	-	Not known	Not known			identical
GJS-400-18	1020				Not known	Not known			
GJS-400-15U	1072/1073	GGG-40	DIN EN 1563	-	QT 400-15	GB 1348-88	Spheroidal graphite iron castings		identical
GJS-400-15	1030				QT 400-15	GB 1348-88	Spheroidal graphite iron castings		identical
GJS-500-7U	1082/1083	GGG-50	DIN EN 1563	-	QT 500-7	GB 1348-88	Spheroidal graphite iron castings		identical
GJS-500-7	1050				QT 500-7	GB 1348-88	Spheroidal graphite iron castings		identical
GJS-600-3U	1092/1093	GGG-60	DIN EN 1563	-	QT 600-3	GB 1348-88	Spheroidal graphite iron castings		identical
GJS-600-3	1060				QT 600-3	GB 1348-88	Spheroidal graphite iron castings		identical

German					Chinese				
Material designation Basis SN359	Material No.	Former designation	Standard	Remark	Material designation	Standard	Title	Remark	Matching of properties:
GJS-700-2U	1102/1103	GGG-70	DIN EN 1563	-	QT 700-2	GB 1348-88	Spheroidal graphite iron castings		identical
GJS-700-2	1070				QT 700-2	GB 1348-88	Spheroidal graphite iron castings		identical
<b>Malleable cast iron</b>					<b>Malleable cast iron</b>				
EN-GJMW-360-12	EN-JM 1020	GTW-S 38-12	DIN EN 1562		Not known	Not known			
EN-GJMW-400-5	EN-JM 1030	GTW-40-05	DIN EN 1562		Not known	Not known			
<b>General purpose cast steel</b>					<b>General purpose cast steel</b>				
GS200	1. 0449	GS-38N	DIN EN 10293	normalised	ZG 200 - 400	GB 11352-89	General-purpose unalloyed cast steel	C content max. 0.18%	similar
GS240	1.0445	GS-45N	DIN EN 10293	normalised	ZG 230 - 450	GB 11352-89	General-purpose unalloyed cast steel	C content max. 0.30% must be limited to max. 0.23%!	similar
					ZGD 270 - 480	GB T 14408-93	Low-alloy cast steel for general purpose and structural steel engineering	No composition specification, only P and S max. 0.040 each	do not use
GE300	1.0558	GS-60N	DIN EN 10293	normalised	ZG 310 - 570	GB 11352-89	General-purpose unalloyed cast steel	Important! C content 0.50 to 0.60 %, only limited weldability.	similar
					ZG340 - 640	GB 11352-89	General-purpose unalloyed cast steel	Important! C content 0.50 to 0.60 %, only limited weldability.	similar
					ZGD 345 - 570	GB T 14408-93	Low-alloy cast steel for general purpose and structural steel engineering	No composition specification, only P and S max. 0.040 each	similar
					ZGD 410 - 620	GB T 14408-93	Low-alloy cast steel for general purpose and structural steel engineering	No composition specification, only P and S max. 0.040 each	similar
G20Mn5 +N or +QT	1.6220	GS-20Mn5V	DIN EN 10293	quenched & tempered	ZG 20 SiMn	JB T 6402-92	Castings in low-alloy steel		similar
GS-52N	1.0552	GS-52N	DIN 1681	normalised	ZG 270 - 500	GB 11352-89	General-purpose unalloyed cast steel	C content max. 0.40% must be limited to 0.35%!	do not use
					ZGD 290 - 510	GB T 14408-93	Low-alloy cast steel for general purpose and structural steel engineering	No composition specification, only P and S max. 0.040 each	do not use
					ZG 310-570	GB 11352-89	General-purpose unalloyed cast steel		do not use
<b>Quenched and tempered steel castings</b>					<b>Quenched and tempered steel castings</b>				
G28Mn6 +QT1 or QT2	1. 1165	GS-30Mn5V	DIN EN 10293	quenched & tempered	ZG 35 SiMn	JB T 6402-92	Castings in low-alloy steel		similar
G26 CrMo4 +QT1 or +QT2	1. 7221	GS-25 CrMo4V	DIN EN 10293	quenched & tempered	ZG 20 CrMo	EZB 1162-92	Title not known		similar
G42 CrMo4 +QT1 or QT2	1. 7231	GS-42 CrMo4V	DIN EN 10293	quenched & tempered	ZG 42 CrMo	JB T 6402-92	Castings in low-alloy steel		similar
G35CrNiMo6-6 +N or +QT1 or QT2	1. 6582	GS-34CrNiMo6V	DIN EN 10293	quenched & tempered	ZG 34 CrNiMo	JB T 6402-92	Castings in low-alloy steel		similar
GS-34 CrMo4V	1. 7220	GS-34 CrMo4V	DIN 17205	quenched & tempered	ZG 35CrMo	EZB 1162-92	Title not known		similar
<b>Flame and induction hardening steel castings</b>					<b>Flame and induction hardening steel castings</b>				
G42CrMo4	1. 7231	GS-42CrMo4	SEW 835	quenched & tempered	ZG 42 CrMo	JB ZQ 4297-88	Alloyed cast steels. Non-standardised cast steels.		similar
G50CrMo4	1. 7232	GS-50CrMo4	SEW 835	quenched & tempered	ZG 50 CrMo	JB ZQ 4297-88	Alloyed cast steels. Non-standardised cast steels.		similar
<b>Heat-resistant steel castings</b>					<b>Heat-resistant steel castings</b>				
GP240GH+N	1.0619	GS-C25N	DIN EN 10213-2	normalised	ZG 230-450	EZB 1165-93	Title not known		similar
GP240GH+QT	1.0619	GS-C25V	DIN EN 10213-2	quenched & tempered	ZG 230-450	EZB 1165-93	Title not known		similar
G20Mo5+QT	1. 5419	GS-22Mo4V	DIN EN 10213-2	quenched & tempered	Not known	Not known			
G17CrMo5-5+QT	1. 7357	GS-17CrMo55V	DIN EN 10213-2	quenched & tempered	ZG 20CrMoV	JB / T 7024-93	Title not known	C content higher, V alloyed, Rm and Re identical	similar
G17CrMoV5-10+QT	1. 7706	GS-17CrMoV5 11V	DIN EN 10213-2	quenched & tempered	ZG 15Cr1Mo1V	JB / T 7024-93	Title not known	Cr content higher, Rm and Re lower	similar
GX23CrMoV12-1+QT	1. 4931	G-X22CrMoV12 1V	DIN EN 10213-2	quenched & tempered	Not known	Not known			

沧州天硕联轴器有限公司，是专业从事胀紧联结套、机械传动和机械密封研究、生产的企业。

German					Chinese					
Material designation Basis SN359	Material No.	Former designation	Standard	Remark	Material designation	Standard	Title	Remark	Matching of properties:	
<b>Manganese steel castings, austenitic</b>					<b>Manganese steel castings, austenitic</b>					
GX 120Mn12	1. 3401	-	without standard	-	ZG MN 13-1	GB 5680-98	Austenitic cast steels with high manganese content		similar	
Not known	-		without standard		ZG MN 13-2	GB 5680-98	Austenitic cast steels with high manganese content			
Not known	-		without standard		ZG MN 13-3	GB 5680-98	Austenitic cast steels with high manganese content			
Not known	-		without standard		ZG MN 13-4	GB 5680-98	Austenitic cast steels with high manganese content			
<b>Copper-tin-zinc cast alloys (red brass)</b>					<b>Copper-tin-zinc cast alloys (red brass)</b>					
GK-CuSn10Zn	-	GK-S1	DIN EN 1982		ZCuSn10Zn2	GB/T 1176-1987	Specification for cast copper alloys			
CuSn7Zn4Pb7-C-GS	CC493K-GS	G-CuSn7ZnPb	DIN EN 1982		ZCuSn7Zn4Pb6	EZB 1179-93	Title not known			
CuSn7Zn4Pb7-C-GZ	CC493K-GZ	GZ-CuSn7ZnPb	DIN EN 1982		ZCuSn7Zn4Pb6	EZB 1179-93	Title not known			
CuSn7Zn4Pb7-C-GC	CC493K-GC	GC-CuSn7ZnPb	DIN EN 1982		ZCuSn7Zn4Pb6	EZB 1179-93	Title not known			
<b>Copper-tin cast alloys (tin bronze)</b>					<b>Copper-tin cast alloys (tin bronze)</b>					
CuSn12-C-GS	CC483K-GS	G-CuSn12	DIN EN 1982		ZCuSn12Pb1	EZB 1179-93	Title not known			
CuSn12-C-GZ	CC483K-GZ	GZ-CuSn12	DIN EN 1982		ZCuSn12Ni2	EZB 1179-93	Title not known			
					ZCuSn10Pb1	Not known				
CuSn12-C-GC	CC483K-GC	GC-CuSn12	DIN EN 1982		ZCuSn12Ni2	EZB 1179-93	Title not known			
CuSn12Ni2-C-GS	CC484K-GS	G-CuSn12Ni	DIN EN 1982		ZCuSn12Ni2	EZB 1179-93	Title not known			
CuSn12Ni2-C-GZ	CC484K-GZ	GZ-CuSn12Ni	DIN EN 1982		ZCuSn12Ni2	EZB 1179-93	Title not known			
CuSn12Ni2-C-GC	CC484K-GC	GC-CuSn12Ni	DIN EN 1982		ZCuSn12Ni2	EZB 1179-93	Title not known			
CuSn11Pb2-C-GS	CC482K-GS	G-CuSn12Pb	DIN EN 1982		ZCuSn12Pb1	EZB 1179-93	Title not known			
CuSn11Pb2-C-GZ	CC482K-GZ	GZ-CuSn12Pb	DIN EN 1982		ZCuSn12Pb1	EZB 1179-93	Title not known			
CuSn11Pb2-C-GC	CC482K-GC	GC-CuSn12Pb	DIN EN 1982		ZCuSn12Pb1	EZB 1179-93	Title not known			
<b>Copper-lead-tin cast alloys</b>					<b>Copper-lead-tin cast alloys</b>					
CuSn10Pb10-C-GS	CC495K-GS	G-CuPb10Sn	DIN EN 1982		ZCuPb10Sn10	GB/T 1176-1987	Specification for cast copper alloys			
CuSn10Pb10-C-GZ	CC495K-GZ	GZ-CuPb10Sn	DIN EN 1982		ZCuPb10Sn10	GB/T 1176-1987	Specification for cast copper alloys			
<b>Copper-aluminium cast alloys</b>					<b>Copper-aluminium cast alloys</b>					
CuAl10Fe5Ni5-C-GS	CC333G-GS	G-CuAl10Ni	DIN EN 1982		ZCuAl10Ni6Fe5	EZB 1179-93	Title not known			
CuAl10Fe5Ni5-C-GZ	CC333G-GZ	GZ-CuAl10Ni	DIN EN 1982		ZCuAl10Ni6Fe5	EZB 1179-93	Title not known			
<b>Copper-zinc cast alloys (cast special brass)</b>					<b>Copper-zinc cast alloys (cast special brass)</b>					
CuZn35Mn2Al1Fe1-GS	CC765-GS	G-CuZn35Al1	DIN EN 1982		ZCuZn35Al1Fe1Mn2	EZB 1179-93	Title not known			
CuZn35Mn2Al1Fe1-GZ	CC765-GZ	GZ-CuZn35Al1	DIN EN 1982		ZCuZn35Al1Fe1Mn2	EZB 1179-93	Title not known			
CuZn34Mn3Al2Fe1-C-GS	CC764-GS	G-CuZn34Al2	DIN EN 1982		ZCuZn34Al2Fe2Mn3	EZB 1179-93	Title not known			
CuZn34Mn3Al2Fe1-C-GZ	CC764-GZ	GZ-CuZn34Al2	DIN EN 1982		ZCuZn34Al2Fe2Mn3	EZB 1179-93	Title not known			
CuZn25Al5Mn4Fe3-C-GS	CC762-GS	G-CuZn25Al5	DIN EN 1982		ZCuZn25Al5Fe3Mn4	EZB 1179-93	Title not known			
CuZn25Al5Mn4Fe3-C-GZ	CC762-GZ	GZ-CuZn25Al5	DIN EN 1982		ZCuZn25Al5Fe3Mn4	EZB 1179-93	Title not known			
CuZn37Mn3Al2PbSi-R540	CW713R-R540	CuZn40Al2F54	DIN EN 12164		Not known	Not known				