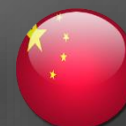




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WERKSTOFF	DIN
BS	EN
AFNOR	UNI
UNE	SS
JIS	AISI/SAE
GB	



CLASSIFICAZIONE 2

Powder Steel Consultant LV

Classificazione Materiali nr 2

Acciai legati e non legati

Acciai Inox ferritici martensitici e austenitici

Acciai resistenti al calore

Ghise grigie sferoidali e malleabili

POWDER STEEL CONSULTANT

Approfondimenti Tecnici

sulla Siderurgia in generale

2020 Classificazione Materiali 2

Powder Steel Consultant LV

1 ACCIAIO AL CARBONIO

GERMANIA		REGNO UNITO		FRANCIA	ITALIA	SPAGNA	SVEZIA	GIAPPONE	USA	CINA
W.nr	DIN	BS	EN	AFNOR	UNI (KU)	UNE	SS	JIS	AISI/SAE	GB
1.0038	RSt37-2	4360 40 C		E 24-2Ne			1311	STKM 12A STKM 12C	A570.36	15
1.545	C105W1	BW2		Y120	C120KU	F515	2900	SUP4	W210	
1.0401	C15	080M15		CC12	C15, C16	F111	1350		1015	15
1.0402	C22	050A20	2C	CC20	C20, C21	F112	1450		1020	20
1.0501	C35	060A35		CC35	C35	F113	1550		1035	35
1.0503	C45	080M46		CC45	C45	F114	1650		1045	45
1.0535	C55	070M55			C55		1655		1055	55
1.0601	C60	080A62	43D	CC55	C60				1060	60
1.0715	9SMn28	230M07	1A	S250	CF9SMn28	F2111 11SMn28	1912	SUM22	1213	Y15
1.0718	9SMnPb28			S250Pb	CF9SMnPb28	11SmNPb28	1914	SUM22L	12L13	
1.0722	10SPb20			10PbF2	CF10Pb20	10SPb20				
1.0726	35S20	212M36	8M	35MF4		F210G	1957		1140	
1.0736	9SMn36	240M07	1B	S300	CF9SMn36	12SMn35			1215	Y13
1.0737	9SMnPb36			S300Pb	CF9SMnPb36	12SMnP35	1926		12L14	
1.1141	Ck15	080M15	32C	XC12	C16	C15K	1370	S15C	1015	15
1.1157	40Mn4	150M36	15	35M5					1039	40Mn
1.1158	Ck25							S25C	1025	25
1.1167	36Mn5			40M5		36Mn5	2120	SMn438(H)	1335	35Mn2
1.1170	28Mn6	150M28	14A	20M5	C28Mn			SCMn1	1330	30Mn
1.1183	Cf35	060A35		XC38TS	C36		1572	S35C	1035	35Mn
1.1191	Ck45	080M46		XC42	C45	C45K	1672	S45C	1045	Ck45
1.1203	Ck55	070M55		XC55	C50	C55K		S55C	1055	55
1.1213	Cf53	060A52		XC48TS	C53		1674	S50C	1050	50
1.1221	Ck60	080A62	43D	XC60	C60		1678	S58C	1060	60Mn
1.1274	Ck101	060A96		XC100		F5117	1870		1095	
1.1545	C105W1	BW1A		Y105	C36KU	F5118	1880	SK3	W1	
1.8900	StE380	4360 55 E			FeE390KG		2145		A572-60	

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2 ACCIAIO LEGATO

GERMANIA		REGNO UNITO		FRANCIA	ITALIA	SPAGNA	SVEZIA	GIAPPONE	USA	CINA
W.nr	DIN	BS	EN	AFNOR	UNI (KU)	UNE	SS	JIS	SAE	GB
1.0144	St44.2	4360 43 C		E28-3			1412	SM400A SM400B SM400C	A573-81	
1.0570	St52-3	4360 50 B		E36-3	Fe52BFN Fe52CFN		2132	SM490A SM490B SM490C		
1.0841	St52-3	150M19		20MC5	Fe52	F431	2172		5120	
1.0904	55Si7	250A53	45	55S7	55Si8	56Si7	2085		9255	55Si2Mn
1.0961	60SiCr7			60SC7	60SiCr8	60SiCr8			9262	
1.2067	100Cr6	BL3		Y100C6		100Cr6			L3	CrV 9SiCr
1.2080	X210Cr12	BD3		Z200C12	X210Cr13KU X250Cr12KU	X210Cr12		SKD1	D3	Cr12
1.2344	X40CrMoV51	BH13		Z40CDV5	X35CrMoV05 X40CrMoV51	X40CrMoV5	2242	SKD61	H13	40CrMoV5
1.2363	X100CrMoV51	BA2		Z100CDV5	X100CrMoV51	X100CrMoV5	2260	SKD12	A2	100CrMoV5
1.2419	105WCr6			105WC13	100WCr6 107WCr5KU	105WCr5	2140	SKS31 SKS2, SKS3		CrWMo
1.2436	X210CrW12				X215CrW121	X210CrW12	2312	SKD2		
1.2542	45WCrV7	BS1			45WCrV8KU	45WCrSi8	2710		S1	
1.2581	X30WCrV93	BH21		Z30WCV9	X28W09KU	X30WCrV9		SKD5	H21	30WCrV9
1.2601	X165CrMoV12				X165CrMoV12	X160CrMoV12	2310			
1.2713	55NiCrMoV6	BH224/5		55NCDV7		F520.S		SKT4	L6	5CrNiMo
1.2833	100V1	BW2		Y1105V				SKS43	W210	V
1.3243	S6/5/2/5	BM35		6-5-2-5	HS6-5-5-5	F5613	2723	SKH55	M35	
1.3255	S 18-1-2-5	BT4		Z80WKCVCV	X78WCo1805	HS18-1-1-5		SKH3	T4	W18Cr4VCo5
1.3343	S6-5-2	4959BA2		Z40CSD10	15NiCrMo13		2715	SUH3	D3	
1.3343	S5/5/2	BM2		Z85WDCVCV	HS6-5-2-2	F5603	2722	SKH9 SKH51	M2	
1.3348	S 2-9-2				HS2-9-2	HS2-9-2	2782		M7	
1.3355	S 18-0-1	BT1		Z80WCV	X75W18KU	HS18-0-1		SKH2	T1	
1.3401	G-X120Mn12	Z120M12		Z120M12	XG120Mn12	X120MN12		SCMnH/1		
1.3505	100Cr6	534A99	31	100C6	100Cr6	F131	2258	SUJ2	ASTM 52100	Gr15 45G
1.4718	X45CrSi93	401S45		Z45CS9	X45CrSi8	F322		SUH1	HW3	X45CrSi93
1.5415	15Mo3	1501-240		15D3	16Mo3KW	16Mo3	2912		ASTM A204	
1.5423	16Mo5	1503-245 1503-420			16Mo5	16Mo5			4520	
1.5622	14Ni6			16N6	14Ni6	15Ni6			ASTM A350	
1.5662	X8Ni9	1501-509 1501-510			X10Ni9	XBNI09			ASTM A353	
1.5662	X8Ni9	1501-509			X10Ni9				ASTM A353	
1.5680	12Ni19			Z18N5					2515	
1.5710	36NiCr6	640A35	111A	35NC6				SNC236	3135	
1.5732	14NiCr10			14NC11	16NiCr11	15NiCr11		SNC415(H)	3415	
1.5752	14NiCr14	655M13	36A	12NC15				SNC815(H)	3415 3310	
1.6511	36CrNiMo4	816M40	110	40NCD3	38NiCrMo4	35NiCrMo4			9840	
1.6523	21NiCrMo2	805M20	362	20NCD2	20NiCrMo2	20NiCrMo2	2506	SNCM220(H)	8620	
1.6546	40NiCrMo22	311 Type 7			40NiCrMo2(KB)	40NiCrMo2		SNCM240	8740	
1.6587	17CrNiMo6	820A16		18NCD6		14NiCrMo13				

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2 ACCIAIO LEGATO *continua*

GERMANIA		REGNO UNITO		FRANCIA	ITALIA	SPAGNA	SVEZIA	GIAPPONE	USA	CINA
W.nr	DIN	BS	EN	AFNOR	UNI (KU)	UNE	SS	JIS	AISI/SAE	GB
1.6582	34CrNiMo6	817M40	24	35NCD6	35NiCrMo6		2541		4340	40CrNiMoA
1.6657	14NiCrMo134	832M13	36C		15NiCrMo13	14NiCrMo131				
1.7015	15Cr3	523M15		12C3				SCr415(H)	5015	15Cr
1.7033	34Cr4	530A32	18B	32C4	34Cr4	35Cr6		SCr430(H)	5132	35Cr
1.7035	41Cr4	530M40	18	42C4	41Cr4	42Cr4		SCr440(H)	5140	40Cr
1.7045	42Cr4					42Cr4	2245	SCr440	5140	40Cr
1.7131	16MnCr5	(527M20)		16MC5	16MnCr5	16MnCr5	2511		5115	18CrMn
1.7176	55Cr13	527A60	48	55C3				SUP9(A)	5155	20CrMn
1.7218	25CrMo4	1717CDS110		25CD4	25CrMo4	55Cr3	2225	SCM420 SCM430	4130	30CrMn
1.7220	34CrMo4	708A37	19B	35CD4	35CrMo4	34CrMo4	2234	SCM432 SCCRM3	4137 4135	35CrMo
1.7223	41CrMo4	708M40	19A	42CD4TS	41CrMo4	42CrMo4	2244	SCM440	4140 4142	40CrMoA
1.7225	42CrMo4	708M40	19A	42CD4	42CrMo4	42CrMo4	2244	SCM440(H)	4140	42CrMo 42CrMnMo
1.7262	15CrMo5			12CD4		12CrMo4	2216	SCM415(H)		
1.7335	13CrMo4	1501-620 Gr27		15CD3.5 15CD4.5	14CrMo45	14CrMo45			ASTM A182 F11, F12	
1.7361	32CrMo12	722M24	40B	30CD12	32CrMo12	F124.A	2240			
1.7380	10CrMo910	1501-622 Gr31, 45		12CD9 12CD10	12CrMo9 12CrMo10	TU.H			ASTM A182 F.22	
1.7715	14MoV63	1503-660 1503-440				13MoCrV6				
1.8159	50CrV4	735A50	47	50CV4	50CrV4	51CrV4	2230	SUP10	6150	50CrVA
1.8509	41CrAlMo7	905M39	41B	40CAD6 40CAD2	41CrAlMo7	41CrAlMo7	2940			
1.8523	39CrMoV13.9	897M39	40C		36CrMoV12					

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3 ACCIAIO INOSSIDABILE (FERRITICO, MARTENSITICO)

GERMANIA		REGNO UNITO		FRANCIA	ITALIA	SPAGNA	SVEZIA	GIAPPONE	USA	CINA
W.nr	DIN	BS	EN	AFNOR	UNI (KU)	UNE	SS	JIS	AISI/SAE	GB
1.4000	X7Cr13	403S17		Z6C13	X6Cr13	F3110	2301	SUS403	403	0Cr13 1Cr12
1.4001	X7Cr14					F8401				
1.4003		405S17		Z8CA12	X6CrAl13				405	
1.4005	X12CrS13	416S21		Z11CF13	X12CrS13	F3411	2380	SUS416	416	
1.4006	X10Cr13	410S21	56A	Z10C14	X12Cr13	F3401	2302	SUS410	410	1Cr13
1.4016	X8C17	430S15	60	Z8C17	X8Cr17	F3113	2320	SUS430	430	1Cr17
1.4021		420S37		Z8CA12	X20Cr13		2303		420	
1.4027	G-X20Cr14	420C29	56B	Z20C13M				SCS2		
1.4034	X46Cr13	420S45	56D	Z40CM Z38C13M	X40Cr14	F3405	2304	SUS420J2		4Cr13
1.4057	X22CrNi17	431S29	57	Z15CNi6.02	X16CrNi16	F3427	2321	SUS431	431	1Cr17Ni2
1.4104	X12CrMoS17			Z10CF17	X10CrS17	F3117	2383	SUS430F	430F	Y1Cr17
1.4113	X6CrMo17	434S17		Z8CD17.01	X8CrMo17		2325	SUS434	434	1Cr17Mo
1.4313	X5CrNi134	425C11		Z4CND13.4M	(G)X6CrNi304		2385	SCS5	CA6-NM	
1.4521	X1CrMoTi182						2326		S44400	
1.4542				Z7CNU17-04					630	
1.4724	X10CrA113	403S17		Z10C13	X10CrA112	F311		SUS405	405	0Cr13Al
1.4742	X10CrA118	430S15	60	Z10CAS18	X8Cr17	F3113		SUS430	430	Cr17
1.4747	X80CrNiSi20	443S65	59	Z80CSN20.02	X80CrSiNi20	F320B		SUH4	HNV6	
1.4762	X10CrA124			Z10CAS24	X16Cr26		2322	SUH446	446	2Cr25N
1.4871	X53CrMnNiN219	349S54		Z52CMN21.09	X53CrMnNiN			SUH35	EV8	5Cr2Mn9Ni4N
1.4922	X20CrMoV12-1				X20CrMoNi120		2317			

4 ACCIAIO INOSSIDABILE (AUSTENITICO)

GERMANIA		REGNO UNITO		FRANCIA	ITALIA	SPAGNA	SVEZIA	GIAPPONE	USA	CINA
W.nr	DIN	BS	EN	AFNOR	UNI (KU)	UNE	SS	JIS	AISI/SAE	GB
		304C12		Z3CN19.10			2333	SUS304L		
1.4305	X12CrNiS188	303S21	58M	Z10CNF18.09	X10CrNiS18.09	F3508	2346	SUS303	303	1Cr18Ni9MoZn
1.4306	X2CrNi1911	304S11		Z2CN18.10	X2CrNi18.11		2352	SUS304L	304L	0Cr19Ni10
1.4306	X2CrNi189	304S12		Z2CrNi1810	X2CrNi18.11	F3503	2352	SCS19	304L	
1.4308	G-X6CrNi189	304C15		Z6CN18.10M				SCS13		
1.4310	X12CrNi177			Z12CN17.07	X12CrNi1707	F3517	2331	SUS301	301	Cr17Ni17
1.4311	X2CrNi1810	304S62		Z2CN18.10			2371	SUS304LN	304LN	
1.4350	X5CrNi189	304S11	58E	Z6CN18.09	X5CrNi1810	F3551 F3541 F3504	2332	SUS304	304	0Cr18Ni9
1.4401	X5CrNiMo1810	316S16	58J	Z5CND17.11	X5CrNiMo1712	F3543	2347	SUS316	316	0Cr17Ni11Mo2
1.4404		316S13		Z2CND17.12	X2CrNiMo1712		2348		316L	
1.4406	X10CrNi18.08		58C	Z1NCDU25.20		F8414	2370	SCS17	308	
1.4408	G-X6CrNiMo1810	316C16				F8414		SCS14		
1.4418	X4CrNiMo165			Z6CND16-04-01						
1.4429	X2CrNiMo1813			Z2CND17.13			2375	SUS316L	316LN	0Cr17Ni13Mo
1.4435	X2CrNiMo1812	316S13		Z2CND17.12	X2CrNiMo1712		2353	SCS16 SUS316L	316L	0Cr27Ni12Mo3
1.4436		316S13		Z6CND18-12-03	X8CrNiMo1713		2343 2347		316	
1.4438	X2CrNiMo1816	317S12		Z2CND19.15	X2CrNiMo1816		2367	SUS317L	317L	00Cr19Ni13Mo

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4 ACCIAIO INOSSIDABILE (AUSTENITICO) *continua*

GERMANIA		REGNO UNITO		FRANCIA	ITALIA	SPAGNA	SVEZIA	GIAPPONE	USA	CINA
W.nr	DIN	BS	EN	AFNOR	UNI (KU)	UNE	SS	JIS	AISI/SAE	GB
1.4539	X1NiCrMo			Z6CNT18.10			2562		UNS V 0890A	
1.4541	X10CrNiTi189	321S12	58B	Z6CNT18.10	X6CrNiTi1811	F3553 F3523	2337	SUS321	321	1Cr18Ni9Ti
1.4550	X10CrNiNb189	347S17	58F	Z6CNNb18.10	X6CrNiNb1811	F3552 F3524	2338	SUS347	347	1Cr18Ni11Nb
1.4563				Z1NCNDU31-27-03 Z1CNDU20-18-06			2584 2378		NO8028 S31254	
1.4568		316S11		Z8CNA17-07	X2CrNiMo1712				17-7PH	
1.4571	X10CrNiMoTi1810	320S17	58J	Z6CNDT17.12	X6CrNiMoTi1712	F3535	2350		316Ti	Cr18Ni12Mo2T
1.4581	G-X5CrNiMoNb1812	318C17		Z4CNDNb1812M	XG8CrNiMo1811			SCS22		
1.4583	X10CrNiMoNb1812			Z6CNDNb1713B	X6CrNiMoNb1713				318	Cr17Ni12Mo3Mb
1.4828	X15CrNiSi2012	309S24		Z15CNS20.12	X6CrNi2520			SUH309	309	1Cr23Ni13
1.4845	X12CrNi2521	310S24		Z12CN2520	X6CrNi2520	F331	2361	SUH310	310S	OCr25Ni20
1.4878	X12CrNiTi189	321S32	58B 58C	Z6CNT18.12B	X6CrNiTi18 11	F3523		SUS321	321	1Cr18Ni9Ti

5 ACCIAIO RESISTENTE AL CALORE

GERMANIA		REGNO UNITO		FRANCIA	ITALIA	SPAGNA	SVEZIA	GIAPPONE	USA	CINA
W.nr	DIN	BS	EN	AFNOR	UNI (KU)	UNE	SS	JIS	AISI/SAE	GB
1.4864	X12NiCrSi3616			Z12NCS35.16				SUH330	330	
1.4865	G-X40NiCrSi3818	330C11			XG50NiCr3919			SCH15	HT HT50	

6 GHISA GRIGIA

GERMANIA		REGNO UNITO		FRANCIA	ITALIA	SPAGNA	SVEZIA	GIAPPONE	USA	CINA
W.nr	DIN	BS		AFNOR	UNI (KU)	UNE	SS	JIS	AISI/SAE	GB
	GG10			Ft 10 D			0100			
							0110	FC100	No 20 B	
0.6015	GG 15	Grade 150		Ft 15 D	G15	FG15	0115	FC150	No 25 B	HT150
0.6020	GG 20	Grade 220		Ft 20 D	G20		0120	FC200	No 30 B	HT200
0.6025	GG 25	Grade 260		Ft 25 D	G25	FG25	0125	FC250	No 35 B	HT250
									No 40 B	
0.6030	GG 30	Grade 300		Ft 30 D	G30	FG30	0130	FC300	No 45 B	HT300
0.6035	GG 35	Grade 350		Ft 35 D	G35	FG35	0135	FC350	No 50 B	HT350
0.6040	GG 40	Grade 400		Ft 40 D			0140		No 55 B	HT400
0.6660	GGL NiCr202	L-NiCuCr202		L-NC 202			0523		A436 Type 2	

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7 GHISA SFEROIDALE

GERMANIA		REGNO UNITO	FRANCIA	ITALIA	SPAGNA	SVEZIA	GIAPPONE	USA	CINA
W.nr	DIN	BS	AFNOR	UNI (KU)	UNE	SS	JIS	AISI/SAE	GB
	GGG 40.3	SNG 370/17	FGS 370-17			07 17-12			
	GGG NiMn137	L-NiMn 137	L-MIN 137			07 72			
	GGG 60	SNG 600/3	FGS 600-3			07 32-03	FCD600		QT600-3
0.7033	GGG 35.3					07 17-15			
0.7040	GGG 40	SNG 420/12	FCS 400-12	GS 370-17	GS 370-17	07 17-02	FCD400	60-40-18	QT400-18
0.7050	GGG 50	SNG 500/7	FGS 500-7	GS 500	FGE 50-7	07 27-02	FCD500	80-55-06	QT500-7
0.7660	GGG NiCr202	Grade S6	S-NC202			07 76		A43D2	
07070	GGG 70	SNG 700/2	FGS 700-2	GS 700-2	FGS 70-2	07 37-01	FCD700	100-70-03	QT700-18

8 GHISA MALLEABILE

GERMANIA		REGNO UNITO	FRANCIA	ITALIA	SPAGNA	SVEZIA	GIAPPONE	USA	CINA
W.nr	DIN	BS	AFNOR	UNI (KU)	UNE	SS	JIS	AISI/SAE	GB
		8 290/6	MN 32-8			08 14	FCMB310		
	GTS-35	B 340/12	MN 35-10			08 15	FCMW330	32510	
0.8145	GTS-45	P 440/7	MN 450	GMN45		08 52	FCMW370	40010	
0.8155	GTS-55	P 510/4	MP 50-5	GMN55		08 54	FCMP490	50005	
	GTS-65	P 570/3	MP 60-3			08 58	FCMP540	70003	
0.8165	GTS-65-02	P 570/3	MN 650-3	GMN65		08 56	FCMP590	A220-70003	
	GTS-70-02	P 690/2	MN 700-2	GMN70		08 62	FCMP690	A220-80002	