

## Tabel corespondente oteluri

Oteluri carbon, aliate si inoxidabile

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DENUMIRE EU	EUROPA EN	ITALIA UNI	CINA GB	GERMANIA DIN	FRANCIA AFNOR	U.K B.S.	RUSSIA GOST	USA AISI SAE
<b>Oteluri de uz general</b>								
<b>S235JR</b>	S235JR	Fe 360 BFN	Q235B	RSt 37-2 <b>1.0038</b>	--	40 B	St3sp	--
<b>S235J2</b>	S235J2	Fe 360 D	Q235A	St 37-3 U <b>1.0116</b>	E 24-4	40 D	St3ps	A 414 g A
<b>S275JR</b>	S275JR	Fe 430 B	Q255A	St 44-2 <b>1.0044</b>	E 28-2	43 B	St4ps	A 283 g D
<b>S275J0</b>	S275J0	Fe 430 C	--	St 44-3 U <b>1.0143</b>	E 28-3	43 C	--	--
<b>S355J0</b>	S355J0	Fe 510 C	--	St 52-3 U <b>1.0553</b>	E 36-3	50 C	St4sp	A 441
<b>S355J2</b>	S355J2	Fe 510 D	--	St 52-3 N <b>1.0553</b>	--	50 D	17G1S	A 350 LF2
<b>E295</b>	E295	Fe 490	Q275	St 50-2 <b>1.0050</b>	A 50-2	--	St5ps	--
<b>E335</b>	E335	Fe 590	HRB335	St 60-2 <b>1.0060</b>	A 60-2	--	St6ps	--
<b>Oteluri masini unelte automate</b>								
<b>10SPb20</b>	10SPb20	CF10SPb20	Y12Pb	10SPb20 <b>1.0722</b>	10PbF2	--	AS14	11L08
<b>11SMn30</b>	11SMn30	CF9SMn28	--	9SMn28 <b>1.0715</b>	S250	230M07	--	1215
<b>11SMnPb30</b>	11SMnPb30	CF9SMnPb28	Y15Pb	9SMnPb28 <b>1.0718</b>	S250Pb	--	(AS14)	12L15
<b>11SMn37</b>	11SMn37	CF9SMn36	--	9SMn36 <b>1.0736</b>	S300	--	--	1214
<b>11SMnPb37</b>	11SMnPb37	CF9SMnPb36	--	9SMnPb36 <b>1.0737</b>	S300Pb	--	--	12L14
<b>35SPb20</b>	35SPb20	35SPb20	--	35SPb20 <b>1.0756</b>	35SPb20	35SPb20	--	---
<b>36SMn14</b>	36SMn14	35SMn10	--	36SMn14 <b>1.0764</b>	36SMn14	--	--	--
<b>36SMnPb14</b>	36SMnPb14	35SMnPb10	--	36SMnPb14 <b>1.0765</b>	35MF6Pb	--	(AS35G2)	--
<b>46S20</b>	46S20	46S20	--	45S20 <b>1.0727</b>	45Mf4	46S20	--	(1146)
<b>46SPb20</b>	46SPb20	46SPb20	--	45SPb20 <b>1.0757</b>	46SPb20	46SPb20	(AS45G2)	11L46)
<b>Oteluri de cementare</b>								
<b>C10E</b>	C10E	C10	10	Ck10 <b>1.1121</b>	XC10	045M10	10	1010
<b>C15E</b>	C15E	C15	15	Ck15 <b>1.1141</b>	XC12	080M15	15	1015
<b>C16E</b>	C16E	C15	15AL	C16E <b>1.1148</b>	XC18	080M15	--	1016
<b>XC18</b>	C16E	C20	20	Ck22 <b>1.1151</b>	XC18	070M20	20	1023
<b>16MnCr5</b>	16MnCr5	16MnCr5	15CrMn	16MnCr5 <b>1.7131</b>	16MC5	590M17	18ChG	5115
<b>20MnCr5</b>	20MnCr5	20MnCr5	20CrMn	20MnCr5 <b>1.7147</b>	20MC5	--	20Ch	5120
<b>17NiCrMo6-4</b>	17NiCrMo6-4	--	--	17NiCrMo6-4 <b>1.6566</b>	--	--	--	--
<b>18NiCrMo5</b>	17NiCrMo6-4	18NiCrMo5	--	--	18NCD6	815M17	--	(4317)
<b>20NiCrMo2-2</b>	20NiCrMo2-2	20NiCrMo2	20CrNiMo	21NiCrMo2 <b>1.6523</b>	20NCD2	805M20	20ChGNM	8620
<b>16NiCr4</b>	16NiCr4 --	16CrNi4 16NiCr4Pb	--	15CrNi6 <b>1.5919</b>	16NC4	637M17	12ChN2	4320
<b>16NiCr11</b>	16NiCr12	16NiCr11	12CrNi3	14NiCr10 <b>1.5732</b>	16NC11	--	--	3415
<b>16NiCrMo12</b>	14NiCrMo13-4	16NiCrMo12	--	16NiCrMo12-6 <b>1.6782</b>	16NCD13	--	--	--

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<b>Oteluri pentru nitrurare</b>								
<b>34 CrAINi7-10</b>	34CrAINi7-10	34CrAINi7-10	--	34CrAINi7 1.8550	--	--	--	K52440
<b>41CrAlMo7-10</b>	41CrAlMo7-10	41CrAlMo7	38CrMoAl	41CrAlMo7 1.8509	40CAD6.12	905M39	38Ch2MJuA	K240065
<b>Oteluri carbon</b>								
<b>ASTM A 105</b>	--	--	--	C21 1.0432	--	--	--	A 105
<b>ASTM A 350 LF2</b>	S355J2	Fe 510D	16Mn	St52.3N 1.0553	--	50D	20G	A 350 LF2
<b>Oteluri pentru trefilare la cald</b>								
<b>P235GH</b>	P235GH	Fe360 1 KW	--	P235GH 1.0345	A37CP	141-360	--	A285 g A
<b>42CrMo4</b>	42CrMo4	42CrMo4	42CrMo	42CrMo4 1.7225	42CD4	708M40	40ChML	A193-B7
<b>40CrMoV4-6</b>	40CrMoV4-6	40CrMoV4-6	--	40CrMoV4-6 1.7711	--	670-860	--	A193 B16
<b>10CrMo9-10</b>	10CrMo9-10	12CrMo9 10 KG	12Cr2MoG	10CrMo9-10 1.7380	12CD9-10	622/B3	10Ch2M	A182 F22
<b>Oteluri carbon pentru imbutatire</b>								
<b>C22E</b>	C22E C22R	C20	20	Ck22 Cm22 1.1151 1.1149	XC18	070M20	20	1020
<b>C30E</b>	C30E C30R	C30	30	Ck30 Cm30 1.1178 1.1179	XC32	080M30	30	1030
<b>C35E</b>	C35E C35R	C35	35	Ck35 Cm35 1.1181 1.1181	XC38H1	080M36	35	1034
<b>C38</b>	C35E C35R	C35	--	Ck35 Cm35 1.1181 1.1180	XC38H1	080M36	38	1035
<b>C40E</b>	C40E C40R	C40	40	Ck40 Cm40 1.1186 1.1189	XC42H1	080M40	40	1040
<b>C45E</b>	C45E C45R	C45	45	Ck45 Cm45 1.1191 1.1201	XC48H1	080M46	45	1045
<b>C50E</b>	C50E C50R	C50	50	Ck50 Cm50 1.1206 1.1241	--	080M50	50	1050
<b>C55E</b>	C55E	C55	55	CK55 1.1203	XC55 H1	070M55	--	1055
<b>C60E</b>	C60E C60R	C60	60	Ck60 Cm60 1.1221 1.1223	--	070M60	60	1060
<b>Oteluri aliate pentru imbutatire</b>								
<b>41Cr4</b>	41Cr4	41Cr4	40Cr	41Cr4 1.7035	42C4	530M40	41Ch	5140
<b>34CrMo4</b>	34CrMo4	34CrMo4	30CrMo	34CrMo4 1.7220	34CD4	--	35ChM	4135
<b>42CrMo4</b>	42CrMo4	42CrMo4	42CrMo	42CrMo4 1.7225	42CD4	708M40	38ChM	4140
<b>39NiCrMo3</b>	39NiCrMo3 --	39NiCrMo3 39NiCrMo3Pb	--	36CrNiMo4 1.6511	40NCD3	816M40	40ChN2MA	9840
<b>34CrNiMo6</b>	34CrNiMo6	35NiCrMo6	--	34CrNiMo6 1.6582	35NCD6	817M40	38Ch2N2MA	9840
<b>40NiCrMo7</b>	40NiCrMo7	40NiCrMo7	--	40NiCrMo8 1.6562	--	--	30ChNML	E4340
<b>30CrNiMo8</b>	--	30CrNiMo8	--	30CrNiMo8 1.6580	30CND8	823M30	30ChN2MA	(320L43)
<b>36NiCrMo16</b>	36NiCrMo16	34NiCrMo16	--	36NiCrMo16 1.6773	35NCD16	85M30	--	--
<b>50CrMo4</b>	50CrMo4	50CrMo4	ZG50CrMo	50CrMo4 1.7228	--	--	50Ch	4150
<b>Oteluri pentru calire superficiala</b>								
<b>C43</b>	--	C43	--	--	--	--	--	--

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<b>C48</b>	--	C48	--	--	--	--	--	1049
<b>Cf53</b>	C53	C53	--	Cf53 <b>1.1213</b>	XC48 TS	070M55	--	(1050)
<b>36CrMn4</b>	37Cr4 appr.	36CrMn4	35Cr4	37Cr4 <b>1.7034</b>	38C4	--	38ChA	5135
<b>41CrMo4</b>	41CrMo4	41CrMo4	40Cr	41CrMo4 <b>1.7225</b>	--	--	40Ch	4142
<b>40NiCrMo3</b>	--	40NiCrMo3	--	--	--	--	--	--
<b>50CrMo4</b>	50CrMo4	50CrMo4	ZG50CrMo	50CrMo4 <b>1.7228</b>	--	--	50Ch	4150
<b>Oteluri pentru arcuri</b>								
<b>C60E</b>	C60E	C60	60	Ck60 Cm60 <b>1.1221 1.1223</b>	--	070M60	60	1060
<b>56Si7</b>	56Si7	55Si7	55Si2Mn	55Si7 <b>1.5026</b>	55S7	251A58	55S2	9255
<b>60SiCr8</b>	60SiCr8	60SiCr8	60Si2CrA	60SiCr7 <b>1.7108</b>	61SC7	--	60S2G	9261H 9262
<b>51CrV4</b>	51CrV4	50CrV4	50CrVA	50CrV4 <b>1.8159</b>	50CV4	735A50	50ChGF	6150
<b>52SiCrNi5</b>	--	52SiCrNi5	ZG50CrMo	52SiCrNi5 <b>1.7117</b>	52SiCrNi5	--	--	--
<b>Oteluri pentru rulmenti</b>								
<b>102Cr 6</b>	102Cr6	100Cr6	Cr2	100Cr6 <b>1.3505</b>	100Cr6	--	ShCh15	52100
<b>100CrMo7</b>	100CrMo7	100CrMo7	GC18Mo	100CrMo7 <b>1.3537</b>	100CD7	--	--	A485(3)
<b>X82WMoV 6 5</b>	X80WMo CrV654	X82WMoV65	--	X82WMo CrV6-5- 4 <b>1.3553</b>	Z85WCDV6	--	85Ch4M5- F2V6L	A597 CM2
<b>Oteluri de scule pentru lucru la cald</b>								
<b>X37CrMoV5-1</b>	X 37CrMoV5-1	X37CrMoV5.1KU	4Cr5MoSiV	X 38CrMoV5-1 <b>1.2343</b>	Z 38CDV5	B-H 11	4Ch5MFS	H 11
<b>X40CrMoV5-1</b>	X 40CrMoV5-1	X40CrMoV5.1.1KU	4Cr5MoSiV1	X 40CrMoV5-1 <b>1.2344</b>	Z 40CDV5	B-H 13	4Ch4VMFS	H 13
<b>40NiCrMoV 16 KU</b>	--	40NiCrMoV16KU	--	35NiCrMo16 <b>1.2766</b>	Y35NCD16	--	--	--
<b>55NiCrMoV7</b>	55NiCrMoV7	56NiCrMoV7KU	5CrNiMo	56NiCrMoV7 <b>1.2714</b>	55NCDV7	BH 224	4ChMNFS	A681 L6
<b>Oteluri pentru cromat</b>								
<b>C45E</b>	C45E C45R	C45	45	Ck45 Cm45 <b>1.1191 1.1201</b>	XC48H1	080M46	45	1045
<b>Cf53</b>	C53	C53	--	Cf53 <b>1.1213</b>	XC48 TS	070M55	--	1050
<b>20MnVS6</b>	--	20MnV6	20MnV	20MnV6 <b>1.5217</b>	--	--	--	A381
<b>42CrMo4</b>	42CrMo4	42CrMo4	42CrMo	42CrMo4 <b>1.7225</b>	42CD4	708M40	38ChM	4140
<b>39NiCrMo3</b>	39NiCrMo3	39NiCrMo3	--	36CrNiMo4 <b>1.6511</b>	40NCD3	816M40	40ChN2MA	9840
<b>50CrMo4</b>	50CrMo4	50CrMo4	ZG50CrMo	50CrMo4 <b>1.7228</b>	--	--	50Ch	4150
<b>Oteluri de scule pentru lucru la rece</b>								
<b>35CrMo7</b>	35CrMo7	35CrMo8KU	5CrMnMo	40CrMnMo7 <b>1.2311</b>	--	--	--	--
<b>40CrMnMo7</b>	35CrMo8	35CrMo8KU	(5CrMnMo)	40CrMnMo7 <b>1.2311</b>	--	--	--	--
<b>100CrMo7</b>	100CrMo7	100CrMo7	GCr18Mo	100CrMo7 <b>1.3537</b>	100CD7	--	--	485(3)
<b>110W4KU</b>	--	110W4KU	--	120WV4 <b>1.2516</b>	--	B-F1	--	A681 A10

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<b>90MnCrV8</b>	90MnCrV8	90MnCrV8KU	9Mn2V	90MnCrV8 <b>1.2842</b>	90MV8	B-O2	9G2F	O - 2
<b>X38CrMo16</b>	X38CrMo16	X38CrMo16 1KU	--	X38CrMo16 <b>1.2316</b>	--	--	--	A681 D4
<b>X153CrMoV12</b>	X153CrMoV12	X155Cr VMo121	Cr12MoV	X155CrVMo121 <b>1.2379</b>	X160CrMoV121	BD 2	Ch12Mf	A681 D 2
<b>X210Cr12</b>	X210Cr12	X205Cr12KU	C12	X210Cr12 <b>1.2080</b>	Z200C12	BD 3	Ch12	A681 D 3
<b>58SiMo8KU</b>	--	58SiMo8KU	--	--	--	--	--	--
<b>60WCrV8</b>	60WCrV8	58WCr9KU	6CrW2Si	60WCrV7 <b>1.2550</b>	55WC20	--	6ChV2S	A681 S-1
<b>C45U</b>	C45U	C45U	(45)	<b>1.1730</b>	Y3 42	C45U	(45)	(1045)
<b>Oteluri rapide</b>								
<b>HS 6-5-2-5</b>	HS 6-5-2-5	HS 6-5-2-5	W6Mo5Cr-4V2Co5	S 6-5-2-5 <b>1.3243</b>	Z90WDKCV 06-05-05-04-02	BM35	R6M5K5	A600M36
<b>HS 2-9-1-8</b>	HS 2-9-1-8	HS 2-9-1-8	W2Mo9-Cr4VCo8	S 2-10-1-8 <b>1.3247</b>	Z110DKCWV 09-08-04-02-01	BM42	R2AM9K5	A600 M42
<b>HS 6-5-2C</b>	HS 6-5-2C	HS 6-5-2	CW6Mo5-Cr4V2	S 6-5-2 <b>1.3343</b>	Z90WDCV 06.05.02	BM2	R6AM5	A600 M-2
<b>HS 10-4-3-10</b>	HS 10-4-3-10	HS 10-4-3-10	--	HS 10-4-3-10 <b>1.3207</b>	Z130WKCDV 10.10.04.04.03	BT42	R9M4K8	A600 M44
<b>Oteluri inoxidabile</b>								
<b>AISI 303</b>	X8CrNiS18-9	X10CrNiS18-09	Y1Cr18Ni9	X10CrNiS18-9 <b>1.4305</b>	Z8CNF18-09	303S31	12Ch18N10E	303
<b>AISI 304</b>	X5CrNi18-10	X5CrNi18-10	0Cr18Ni9	X5CrNi18-10 <b>1.4301</b>	Z5CN18-09	304S15	07Ch18N10	304
<b>AISI 316</b>	X5CrNiMo 17-12-2	X5CrNiMo17 12	0Cr17-Ni12Mo2	X5CrNiMo 17-12-2 <b>1.4401</b>	Z7CND 17-12-02	316S31	08Ch17-N13M2	316
<b>AISI 416</b>	X12CrS13	X12CrS13	Y1Cr13	X12CrS13 <b>1.4005</b>	Z11CF13	416S21	--	416
<b>AISI 420</b>	X20Cr13	X20Cr13	2Cr13	X20Cr13 <b>1.4021</b>	Z20C13	420S37	20Ch13	420
<b>AISI 430</b>	X6Cr17	X8Cr17	1Cr17	X6Cr17 <b>1.4016</b>	Z8C17	430S17	12Ch17	430
<b>AISI 431</b>	X17CrNi16-2	X17CrNi16-2	1Cr17Ni2	X17CrNi16-2 <b>1.4057</b>	Z15CN16-02	431S29	17Ch17N2	431
<b>Oteluri nealiate</b>								
<b>SAE 1141</b>	--	--	--	--	--	--	--	1141
<b>SAE 1116</b>	--	--	--	--	--	--	--	1116
<b>SAE 1117</b>	(15S10)	--	--	--	--	(214A15)	--	1117
<b>SAE 1018</b>	--	C18	20	St 45.8 <b>1.0405</b>	--	080A17	18G	1018
<b>SAE 1045</b>	C45E	C45	45	CK45 <b>1.1191</b>	XC48H1	080M46	45G	1045
<b>CB 4 FF</b>	CB4 FF KD	CB4 FF	--	C4 C <b>1.0303</b>	--	--	--	--
<b>CB 20 FF</b>	C21 KD	CB20 FF	20g	C22 C <b>1.1152</b>	--	--	--	--
<b>C 20</b>	C22	C20	20	C22 <b>1.0402</b>	C20	070M20	20A	M1020