

**EXTRA LEGA - ACCIAI DA COSTRUZIONE, PER MOLLE E CUSCINETTI
IN SEMILAVORATI, BILLETTE, BARRE, ROTOLI E LAVORATI A FREDDO**

**ALLOY SURCHARGE - ENGINEERING STEELS, STEELS FOR SPRINGS AND BEARINGS
IN SEMIS, R.C.S. BILLETS, ROLLED AND FORGED ROUND BARS, COILS**

valido per Giugno 2018 - valid for June 2018 shipment
da applicarsi a fine fattura in €/t - at the end of invoice in €/t

| MARCA / GRADE | NORM | lingotti e colata continua | laminati e forgiati | lavorati a freddo |
|--|------------|-----------------------------|-----------------------------------|---------------------------------------|
| | | Ingots & continuous casting | billets, bars, coils, forged bars | Bright-steel, rough-turned and peeled |
| Acciai per bulloneria / Bolts and nuts steels | | | | |
| 38 Cr 1 KB | EN 10263 | 13 | 15 | 19 |
| 38 Cr 2 KB | EN 10263-4 | 18 | 20 | 25 |
| 34 - 41Cr 4 KB | EN 10263-4 | 28 | 31 | 39 |
| 25 - 42 CrMo 4 KB | EN 10263-4 | 64 | 72 | 92 |
| 30 -40 NiCrMo 2 KB | EN 10263 | 102 | 115 | 149 |
| 38 NiCrMo 4 KB | EN 10263 | 123 | 138 | 178 |
| 34 CrNiMo 6 KB | EN 10263-4 | 190 | 214 | 276 |
| 40 NiCrMo 7 KB | EN 10263 | 200 | 225 | 291 |
| Acciai da bonifica / Hardening and tempering steels | | | | |
| QS1105200 | | 12 | 13 | 17 |
| 41 Cr 4 | EN 10083.1 | 28 | 32 | 40 |
| 36 CrMn 4 | UNI 7847 | 30 | 33 | 42 |
| 51 CrV 4 | EN 10083.1 | 113 | 128 | 165 |
| 25 - 42 CrMo 4 | EN 10083.1 | 63 | 71 | 91 |
| 20-25 MoCr4 | | 88 | 99 | 127 |
| 40 NiCrMo 2 | EN 10083.1 | 94 | 106 | 137 |
| 36CrNiMo4 | EN 10083.1 | 132 | 149 | 192 |
| 39 NiCrMo 3 | EN 10083.1 | 122 | 137 | 177 |
| 40 NiCrMo 7 | UNI 6926 | 202 | 227 | 293 |
| 30CrNiMo 8 | EN 10083.1 | 269 | 302 | 390 |
| 30 NiCrMo 12 | | 325 | 366 | 474 |
| 30 NiCrMoV 12 | UNI 6787 | 390 | 439 | 568 |
| 36 NiCrMo 16 | EN 10083.1 | 390 | 439 | 567 |
| Acciai da cementazione / Case hardening steels | | | | |
| 16 MnCr 5 | EN 10084 | 29 | 33 | 42 |
| 20 MnCr 5 | EN 10084 | 34 | 38 | 48 |
| SAE 94B17 | | 58 | 65 | 84 |
| 18 CrMo 4 | EN 10084 | 59 | 67 | 85 |
| 12 NiCr 3 | | 66 | 75 | 96 |
| 16 - 20 CrNi 4 | EN 10084 | 100 | 113 | 145 |
| 16 NiCr 11 | EN 10084 | 228 | 257 | 332 |
| 16 - 20 NiCrMo 2 | EN 10084 | 91 | 102 | 132 |
| 18 NiCrMo 5 | EN 10084 | 161 | 181 | 234 |
| 17 CrNiMo 6 | EN 10084 | 214 | 241 | 311 |
| 18 NiCrMo 7 | EN 10084 | 217 | 244 | 316 |

| MARCA / GRADE | NORM | lingotti e colata continua | laminati e forgiati | lavorati a freddo |
|--|------------|--------------------------------|--------------------------------------|---|
| | | Ingots & continuous casting | billets, bars, coils, forged bars | Bright-steel, rough- turned and peeled |
| Acciai da nitrurazione / Nitriding steels | | | | |
| 31 CrMo 12 | EN 10085 | 127 | 142 | 182 |
| 31 CrMoV 9 | EN 10085 | 156 | 176 | 226 |
| 34 - 42CrAlMo 7 | EN 10085 | 88 | 99 | 127 |
| Acciai per tempra superficiale / Surface hardening steels | | | | |
| 38 Cr 4 | UNI 7847 | 27 | 31 | 39 |
| 36 CrMn 4 | UNI 7847 | 31 | 34 | 44 |
| 41 CrMo 4 | UNI 7847 | 58 | 65 | 83 |
| 40 NiCrMo 3 | UNI 7847 | 123 | 138 | 178 |
| Acciai alte temperature / Creep resisting steels | | | | |
| 16 Mo 5 | EN 10216 | 92 | 104 | 135 |
| 14 CrMo 3 | EN 10216 | 109 | 123 | 158 |
| 18 CrMoSi 4 | EN 10222 | 122 | 137 | 176 |
| 11 CrMo 9 10 | EN 10222.2 | 207 | 232 | 300 |
| 16 CrMo 20 5 | EN 10216.2 | 187 | 210 | 269 |
| Acciai basse temperature / Steels for low temperatures | | | | |
| 18 Ni 14 | EN 10216-4 | 271 | 305 | 396 |
| X 12 Ni 09 | EN10222-4 | 694 | 781 | 1013 |
| Acciai per cuscinetti / Bearing steels | | | | |
| 100 Cr 6 | EN 683.17 | 34 | 39 | 49 |
| 100 CrMo 7 | EN 683.17 | 79 | 89 | 113 |
| 100 CrMn 4 | EN 683.17 | 27 | 30 | 38 |
| Acciai per molle / Spring steels | | | | |
| 48 - 60 Si 7 | EN 10089 | 25 | 28 | 37 |
| 60 SiCr 8 | EN 10089 | 34 | 38 | 49 |
| 52 SiCrNi 5 | EN 10089 | 83 | 94 | 121 |
| 45 SiCrMo 6 | EN 10089 | 64 | 72 | 93 |
| 55 Cr 3 | EN 10089 | 23 | 25 | 32 |
| 50 CrV 4 | EN 10089 | 109 | 122 | 158 |
| 51 CrMoV 4 | EN 10089 | 133 | 150 | 193 |
| Acciai microlegati / Micro-alloyed steels | | | | |
| 19 - 46 MnV 6 | EN 10267 | 66 | 74 | 96 |
| 19 - 46 MnVS 6 | EN 10267 | 67 | 75 | 97 |
| 38MnSiVS6 | | 69 | 77 | 100 |
| D25M6 | | 74 | 84 | 108 |
| 48MnV3 | | 56 | 63 | 81 |
| Acciai vari / Other steels | | | | |
| 1.0038 | S235JR | 6 | 7 | 8 |
| 1.0432 | C21 | 10 | 11 | 15 |
| 1.0460 | P250GH | 4 | 5 | 6 |
| 1.0482 | 19Mn5 | 13 | 15 | 20 |
| 1.0503 | C45 | 4 | 5 | 6 |
| 1.0511 | C40 | 4 | 5 | 6 |
| 1.0528 | C30 | 4 | 5 | 6 |
| 1.0535 | C55 | 5 | 6 | 7 |
| 1.0540 | C50 | 5 | 6 | 7 |
| 1.0553 | S355J0 | 12 | 14 | 18 |
| 1.0565 | P355NH | 12 | 14 | 18 |
| 1.0566 | P355NL1 | 9 | 10 | 13 |
| 1.0570 | S355J2G3 | 9 | 10 | 13 |
| 1.0577 | S355J2 | 11 | 13 | 17 |
| 1.0721 | 10S20 | 8 | 9 | 12 |
| 1.0764 | 36SMn14 | 10 | 11 | 15 |
| 1.1108 | 10Mn4 | 10 | 11 | 15 |
| 1.1127 | 38Mn6 | 13 | 15 | 19 |
| 1.1132 | C15E2C | 6 | 7 | 9 |
| 1.1140 | C15R | 6 | 7 | 9 |
| 1.1141 | C15E | 5 | 6 | 8 |
| 1.1160 | 22Mn6 | 14 | 16 | 21 |
| 1.1167 | 36Mn5 | 9 | 10 | 13 |

| MARCA / GRADE | NORM | lingotti e colata continua | laminati e forgiati | lavorati a freddo |
|---------------|------------------|--------------------------------|--------------------------------------|---|
| | | Ingots & continuous casting | billets, bars, coils, forged bars | Bright-steel, rough- turned and peeled |
| 1.1181 | C35E | 7 | 7 | 10 |
| 1.1191 | C45E/CK45 | 7 | 8 | 10 |
| 1.1197 | 25MnV5 | 40 | 45 | 58 |
| 1.1201 | C45R | 4 | 5 | 6 |
| 1.1206 | C50E | 5 | 6 | 7 |
| 1.1213 | CF53 | 4 | 4 | 5 |
| 1.1219 | C56E2 | 5 | 6 | 7 |
| 1.1231 | C67S | 8 | 9 | 12 |
| 1.1236 | C66D2 | 5 | 6 | 7 |
| 1.1241 | C50R | 5 | 6 | 7 |
| 1.1301 | 19MnVS6 | 66 | 74 | 96 |
| 1.1302 | 30MnVS6 | 67 | 75 | 97 |
| 1.1303 | 38MnVS6 | 71 | 80 | 104 |
| 1.1304 | 46MnVD6 | 71 | 80 | 104 |
| 1.1305 | 46MnVS3 | 76 | 86 | 111 |
| 1.2007 | 70Cr2 | 21 | 23 | 30 |
| 1.2067 | 102Cr6 | 34 | 39 | 49 |
| 1.2242 | 59CrV4 | 76 | 86 | 111 |
| 1.2826 | 60MnSiCr4 | 23 | 26 | 33 |
| 1.3505 | 100Cr6 | 34 | 39 | 49 |
| 1.3520 | 100CrMnSi6-4 | 51 | 58 | 74 |
| 1.3531 | 16CrNiMo6 | 200 | 226 | 291 |
| 1.3536 | 100CrMo7-3 | 86 | 96 | 123 |
| 1.3537 | 100CrMo7 | 72 | 81 | 103 |
| 1.3538 | 100CrMo7-4 | 113 | 127 | 163 |
| 1.3539 | 100CrMnMoSi8-4-6 | 135 | 152 | 195 |
| 1.4903 | X10CrMoVNb9-1 | 448 | 504 | 647 |
| 1.5066 | 30Mn5 | 12 | 13 | 17 |
| 1.5216 | 17MnV6 | 84 | 95 | 123 |
| 1.5217 | 20MnV6 | 84 | 94 | 122 |
| 1.5223 | 42MnV7 | 61 | 69 | 90 |
| 1.5231 | 38MnSiVS5 | 69 | 77 | 100 |
| 1.5232 | 27MnSiVS6 | 73 | 82 | 107 |
| 1.5233 | 44MnSiVS6 | 73 | 82 | 107 |
| 1.5415 | 16Mo3 | 53 | 60 | 78 |
| 1.5423 | 16Mo5 | 90 | 101 | 131 |
| 1.5523 | 19MnB4 | 7 | 7 | 10 |
| 1.5532 | 38MnB5 | 9 | 10 | 13 |
| 1.5662 | X 8 Ni 9 | 693 | 780 | 1011 |
| 1.5708 | 12NiCr3 | 63 | 71 | 92 |
| 1.5715 | 16NiCrS4 | 100 | 113 | 145 |
| 1.5752 | 15NiCr13 | 272 | 306 | 396 |
| 1.5810 | 18 NiCr 5-4 | 129 | 145 | 187 |
| 1.5918 | 17 CrNi 6-6 | 153 | 173 | 222 |
| 1.6510 | 39 NiCrMo 3 | 116 | 130 | 168 |
| 1.6511 | 36 CrNiMo 4 | 140 | 157 | 203 |
| 1.6522 | 20 NiCrMo 2 | 88 | 99 | 128 |
| 1.6523 | 20 NiCrMo 2-2 | 91 | 102 | 132 |
| 1.6526 | 20NiCrMoS2-2 | 89 | 100 | 130 |
| 1.6527 | 20NiCrMo3 | 107 | 120 | 156 |
| 1.6541 | 23 MnNiCrMo 5 2 | 99 | 111 | 144 |
| 1.6562 | 40 NiCrMo 8-4 | 218 | 246 | 318 |
| 1.6563 | 41 NiCrMo 7-3-2 | 202 | 227 | 293 |
| 1.6566 | 17 NiCrMo 6-4 | 161 | 181 | 234 |
| 1.6580 | 30 CrNiMo 8 | 269 | 302 | 390 |
| 1.6582 | 34 CrNiMo 6 | 183 | 206 | 266 |
| 1.6587 | 18 CrNiMo 7-6 | 214 | 241 | 311 |
| 1.6657 | 14 NiCrMo 13-4 | 309 | 348 | 450 |
| 1.6758 | 23 MnNiMoCr 5-4 | 180 | 202 | 262 |
| 1.6782 | 16NiCrMo12-6 | 314 | 353 | 456 |

| MARCA / GRADE | NORM | lingotti e colata continua | laminati e forgiati | lavorati a freddo |
|---------------|-----------------|-----------------------------|-----------------------------------|---------------------------------------|
| | | Ingots & continuous casting | billets, bars, coils, forged bars | Bright-steel, rough-turned and peeled |
| 1.6959 | 35 NiCrMoV 12-5 | 412 | 464 | 600 |
| 1.7016 | 17Cr3 | 24 | 27 | 35 |
| 1.7033 | 34Cr4 | 28 | 32 | 40 |
| 1.7034 | 37Cr4 | 28 | 32 | 40 |
| 1.7035 | 41Cr4 | 28 | 32 | 40 |
| 1.7039 | 41CrS4 | 28 | 32 | 40 |
| 1.7043 | 38Cr4 | 28 | 32 | 40 |
| 1.7076 | 32CrB4 | 25 | 29 | 36 |
| 1.7077 | 36CrB4 | 26 | 29 | 37 |
| 1.7117 | 52SiCrNi5 | 83 | 94 | 121 |
| 1.7131 | 16 MnCr 5 | 29 | 33 | 42 |
| 1.7137 | 60 MnCrB 3 | 24 | 27 | 34 |
| 1.7139 | 16 MnCrS 5 | 29 | 33 | 42 |
| 1.7147 | 20 MnCr 5 | 34 | 38 | 48 |
| 1.7148 | 30MnCrB4-2 | 34 | 38 | 48 |
| 1.7149 | 20 MnCrS 5 | 34 | 38 | 48 |
| 1.7160 | 16 MnCrB 5 | 26 | 29 | 37 |
| 1.7168 | 18 MnCrB 5 | 31 | 35 | 44 |
| 1.7176 | 55Cr3 | 27 | 30 | 38 |
| 1.7177 | 60Cr3 | 20 | 23 | 29 |
| 1.7182 | 27 MnCrB 5 2 | 17 | 19 | 25 |
| 1.7185 | 33 MnCrB 5 2 | 18 | 20 | 26 |
| 1.7213 | 25 CrMoS 4 | 60 | 68 | 87 |
| 1.7216 | 30 CrMo 4 | 55 | 62 | 80 |
| 1.7218 | 25CrMo4 | 60 | 68 | 87 |
| 1.7220 | 34 CrMo 4 | 60 | 68 | 87 |
| 1.7223 | 41 CrMo 4 | 63 | 71 | 91 |
| 1.7225 | 42CrMo4 | 63 | 71 | 91 |
| 1.7226 | 34 CrMoS 4 | 63 | 71 | 91 |
| 1.7227 | 42 CrMoS 4 | 63 | 71 | 91 |
| 1.7228 | 50 CrMo 4 | 62 | 70 | 90 |
| 1.7243 | 18 CrMo 4 | 59 | 67 | 85 |
| 1.7311 | 20CrMo2 | 73 | 83 | 107 |
| 1.7319 | 20 MoCrS 3 | 77 | 87 | 112 |
| 1.7321 | 20 MoCr 4 | 86 | 97 | 126 |
| 1.7323 | 20 MoCrS 4 | 86 | 97 | 126 |
| 1.7325 | 25 MoCr 4 | 88 | 99 | 127 |
| 1.7326 | 25 MoCrS 4 | 88 | 99 | 127 |
| 1.7335 | 13 CrMo 4-5 | 93 | 104 | 134 |
| 1.7362 | X12CrMo5 | 185 | 208 | 266 |
| 1.7380 | 10 CrMo 9 10 | 205 | 231 | 297 |
| 1.7383 | 11 CrMo 9-10 | 205 | 231 | 298 |
| 1.7386 | X 12 CrMo 9 1 | 349 | 392 | 501 |
| 1.7701 | 52CrMoV4 | 133 | 150 | 193 |
| 1.8062 | 46SiCrMo6 | 69 | 77 | 99 |
| 1.8070 | 21 CrMoV 5-11 | 193 | 217 | 280 |
| 1.8159 | 51CrV4 | 111 | 125 | 161 |
| 1.8161 | 58 CrV 4 | 100 | 112 | 145 |
| 1.8201 | 7CrWVMoNb9-6 | 191 | 215 | 276 |
| 1.8515 | 31 CrMo 12 | 125 | 140 | 179 |
| 1.8519 | 31 CrMoV 9 | 156 | 176 | 226 |
| 1.8550 | 34 CrAlNi 7-10 | 152 | 171 | 220 |
| 1.8871 | P460QH | 41 | 47 | 60 |
| 1.8901 | S 460 N | 166 | 186 | 241 |
| 1.8905 | P 460 N | 66 | 74 | 96 |
| 1.8907 | StE 500 | 80 | 90 | 117 |
| 1.8915 | P460NL1 | 69 | 78 | 101 |
| 1.8928 | S690QL | 161 | 181 | 234 |

| MARCA / GRADE | NORM | lingotti e colata continua | laminati e forgiati | lavorati a freddo |
|----------------------|------|-----------------------------|-----------------------------------|---------------------------------------|
| | | Ingots & continuous casting | billets, bars, coils, forged bars | Bright-steel, rough-turned and peeled |
| 1E 836\1E 1120 | | 52 | 58 | 75 |
| 1E 0778 | | 63 | 71 | 91 |
| 1E 1054 | | 75 | 84 | 109 |
| 1E 0769 | | 13 | 14 | 18 |
| 1E 0509 | | 56 | 63 | 81 |
| 1E 0621 | | 9 | 10 | 14 |
| 1E 0686 | | 12 | 13 | 17 |
| 1E 0951 | | 44 | 49 | 64 |
| 1E1058 | | 66 | 74 | 95 |
| STE 690 | | 186 | 209 | 271 |
| 1E 0669 | | 9 | 10 | 14 |
| 1E1497 | | 61 | 68 | 88 |
| 42CrMo4+Ni+V | | 141 | 159 | 205 |
| F11 | | 100 | 112 | 144 |
| F22 | | 200 | 225 | 290 |
| B30 | | 16 | 19 | 24 |
| 123-35MnCrB5 | | 24 | 28 | 35 |
| 113-35CrB5 | | 28 | 31 | 40 |
| 108-C40Mn | | 18 | 20 | 26 |
| 22MnV6 | | 97 | 109 | 141 |
| 107-38MnV5 | | 70 | 79 | 103 |
| 42CrMo4 PBK | | 68 | 76 | 98 |
| 42CrMo4 JMBK | | 79 | 89 | 115 |
| X19NiCrMo4 | | 367 | 413 | 534 |
| 30NiCrMoV7 | | 243 | 274 | 354 |
| 21CrMoV5.11 | | 314 | 354 | 458 |
| A193 B16 | ASTM | 248 | 278 | 360 |
| 605M36 | | 52 | 58 | 75 |
| MTS 238 / SAE 1141/I | | 14 | 16 | 20 |
| A320 L7 | | 89 | 100 | 129 |
| SAE 4320 JDM | | 197 | 222 | 287 |
| A 1041 F | | 13 | 15 | 19 |
| RES166380 | | 47 | 53 | 68 |
| RES 10460 | | 21 | 23 | 30 |
| 8630/vgs | | 164 | 185 | 239 |
| 86B45 H | | 84 | 94 | 122 |
| AMS 6418 | | 234 | 263 | 341 |
| AISI 8720 | | 95 | 107 | 138 |
| SAE 8627H | | 88 | 99 | 128 |
| SAE 8822H | | 107 | 120 | 155 |
| Steel 9313 | | 303 | 341 | 441 |
| B222-8 | | 91 | 102 | 131 |
| B222-5 | | 52 | 58 | 75 |
| B79 | | 110 | 123 | 159 |
| JDM 4320 | | 191 | 214 | 278 |
| PS65 | | 26 | 29 | 37 |
| B222-6(4122 MOD) | | 46 | 52 | 66 |
| B63-2 (V2525-60) | | 112 | 126 | 162 |
| VSCH CRNI 2525 HL | | 106 | 119 | 154 |
| V 2525-50 | | 121 | 136 | 176 |
| 23CrMoB3 | | 73 | 82 | 105 |
| 92523 | | 134 | 151 | 194 |
| B46-1 | | 164 | 185 | 238 |
| B63-1 | | 113 | 127 | 164 |
| Aisi 4718 | | 147 | 165 | 214 |
| Aisi 4815 | | 335 | 376 | 488 |
| 1.1301-1.1302 mod | | 69 | 78 | 101 |

| MARCA / GRADE | NORM | lingotti e colata continua | laminati e forgiati | lavorati a freddo |
|-------------------|------|--------------------------------|--------------------------------------|---|
| | | Ingots & continuous casting | billets, bars, coils, forged bars | Bright-steel, rough- turned and peeled |
| 23MCD5 | | 66 | 75 | 96 |
| 1 E 1286 | | 65 | 74 | 94 |
| 30 Cr Si Mo V 663 | | 146 | 165 | 212 |
| 41CrS4 Mod 27 | | 43 | 48 | 62 |
| 15CrNi6 | | 152 | 171 | 220 |
| ste890 | | 182 | 205 | 265 |
| 23MnNiCrMo5.2 | | 106 | 119 | 154 |
| TK23F | | 63 | 71 | 92 |
| SAE 8620 | | 91 | 102 | 132 |
| D60SiMn5/ A1 | | 29 | 33 | 42 |
| 39MNCRB6 | | 22 | 25 | 32 |
| P420 QH | | 94 | 105 | 136 |
| SA 508 Gr. 3 | | 140 | 157 | 203 |
| SA 765 Gr. 4 | | 50 | 56 | 72 |
| A694 F65 | | 46 | 52 | 68 |
| A182 F1 | | 93 | 104 | 135 |
| 33MNCRMOB5 | | 43 | 48 | 62 |
| 37MNCRMOB5 | | 38 | 42 | 55 |
| 35MNB5 | | 23 | 26 | 33 |
| 1DRB | | 39 | 43 | 56 |
| 47TS2 | | 16 | 18 | 24 |
| PS30 SAE 4715 | | 146 | 165 | 213 |
| 92520 | | 161 | 181 | 234 |
| V2906 | | 49 | 55 | 71 |
| V2908-95 | | 20 | 22 | 28 |
| V2527-70 | | 162 | 183 | 236 |
| VW 4227 | | 29 | 32 | 41 |
| VW 4521 | | 200 | 225 | 291 |
| VW1427 | | 80 | 90 | 117 |
| ZF 1 | | 153 | 173 | 222 |
| ZF 1 A | | 214 | 241 | 310 |
| ZF 6 | | 36 | 41 | 52 |
| ZF 49 | | 71 | 80 | 104 |
| ZF 50 | | 7 | 8 | 11 |
| ZF 63 | | 30 | 34 | 43 |
| ZF 64 | | 28 | 32 | 40 |
| ZF 7 B | | 34 | 38 | 48 |