



INSO GROUP SPAIN, S.L.

MATERIALES FORJA / FORGING ALLOYS

ACERO / STEEL

HIERRO / IRON

INOXIDABLE / STAINLESS STEEL

ALEACIONES ESPECIALES / SPECIAL ALLOYS

TITANIO / TITANIUM

ALUMINIO / ALUMINIUM

COBRE / COPPER

CUPRONÍQUEL / COPPER-NICKEL

BRONCE / BRONZE

Aceros de construcción:

General structural steel:

1.0037 - ST37-2 G
 1.0038 - RST.37-2
 1.0050 - ST50-2
 1.0060 - ST60-2 G
 1.0116 - ST37-3 G
 1.0301 - C10
 1.0401 - C15
 1.0402 - C22
 1.0425 - P265GH
 1.0432 - C21
 1.0460 - C22G2
 1.0481 - P295GH
 1.0482 - 19Mn5
 1.0486 - StE285
 1.0487 - WStE285
 1.0488 - TStE285
 1.0501 - C35
 1.0503 - C45
 1.0505 - StE 315
 1.0506 - WStE 315
 1.0508 - TStE 315
 1.0562 - StE 355
 1.0565 - WStE 355
 1.0566 - TStE 355
 1.0570 - ST52-3
 1.0601 - C60
 1.1133 - 20Mn5
 1.1141 - CK15
 1.1151 - CK22
 1.1181 - CK35
 1.1191 - CK45
 1.1193 - CF45
 1.1213 - CF53
 1.1221 - CK60

Aceros de cementación:

Case hardening steel:

1.5752 - 15NiCr13
 1.5919 - 15CrNi6
 1.5920 - 18CrNi8
 1.6587 - 18CrNiMo7-6
 1.7131 - 16MnCr5
 1.7147 - 20MnCr5

Aceros de rodamientos:

Bearing steel:

1.3505 - 100Cr6
 1.3536 - 100CrMo7-3
 1.3539 - 100CrMnMo8

Aceros herramienta:

Tool steel:

1.2067 - 102Cr6
 1.2080 - X210Cr12
 1.2162 - 21MnCr5
 1.2312 - 40CrMnMoS8-6
 1.2316 - X36CrMo17
 1.2343 - X38CrMoV5-1
 1.2344 - X40CrMoV5-1
 1.2363 - X100CrMoV5-1
 1.2367 - X38CrMoV5-3
 1.2379 - X155CrMoV12-1
 1.2436 - X210CrW12
 1.2510 - 100MnCrW4
 1.2550 - 60WCrV7
 1.2601 - X165CrMoV12
 1.2714 - 56NiCrMoV7
 1.2764 - X19NiCrMo4
 1.2767 - X45NiCrMo 4
 1.2826 - 60MnSiCr4
 1.2842 - 90MnCrV8

Aceros de resistencia:

Heat resisting steel:

1.5120 - 38MnSi4
 1.5141 - 53MnSi4
 1.5415 - 16Mo3
 1.5423 - 16Mo5
 1.5637 - 12Ni14
 1.5680 - X12Ni5
 1.5864 - 35NiCr18
 1.6210 - 15MnNi63
 1.6310 - 20MnMoNi5-5
 1.6311 - 20MnMoNi4-5
 1.6368 - 15NiCuMoNb5
 1.6562 - 40NiCrMo8-4
 1.6580 - 30CrNiMo8
 1.6582 - 34CrNiMo6
 1.6746 - 32NiCrMo14-5
 1.6780 - 15NiCrMo10-6
 1.6948 - 27NiCrMoV11-6
 1.6957 - 26NiCrMoV14-5
 1.6958 - 26NiCrMo14-6
 1.6981 - 21CrMoNiV4-7
 1.7033 - 34Cr4
 1.7034 - 37Cr4
 1.7035 - 41Cr4
 1.7103 - 67SiCr5
 1.7218 - 25CrMo4
 1.7219 - 26CrMo4
 1.7220 - 34CrMo4
 1.7225 - 42CrMo4
 1.7228 - 50CrMo4
 1.7258 - 24CrMo5
 1.7323 - 20MoCrS4
 1.7325 - 25MoCr4
 1.7335 - 13CrMo4-5
 1.7362 - 12CrMo19-5
 1.7380 - 10CrMo9-10
 1.7383 - 11CrMo9-10
 1.7386 - X11CrMo9-1
 1.7707 - 30CrMoV9
 1.7709 - 21CrMoV5-7

1.7715 - 14MoV6-3
 1.7733 - 24CrMoV5-5
 1.7734
 1.8159 - 50CrV4
 1.8161 - 58CrV4
 1.8507 - 34CrAlMo5
 1.8509 - 41CrAlMo7-10
 1.8515 - 31CrMo12
 1.8519 - 31CrMoV9
 1.8550 - 34CrAlNi7
 1.8882 - S355G3
 1.8902 - S420N2
 1.8905 - P460N2
 1.8907 - StE500
 1.8912 - S420NL2
 1.8915 - P460NL12
 1.8917 - TStE500
 1.8928 - S690QL
 1.8931 - S690Q
 1.8932 - WStE420
 1.8935 - P460NH2
 1.8937 - WStE500

Aceros ESR:

ESR steel:

1.4361 ESU
 1.4429 ESU
 1.4435 ESU
 1.4542 ESU
 1.4545 ESU
 1.4548 ESU
 1.4923 ESU
 1.4944 ESU
 1.4980 ESU
 1.6580 ESU
 1.6582 ESU
 1.6587 ESU
 1.6746 ESU
 1.6780 ESU
 1.6948 ESU

Materiales ABB:

ABB materials:

ST 10 TS
 ST 11 T
 ST 12
 ST 12 T
 ST 12 TS
 ST 16/13 MoVNbl
 ST 325
 ST 325 TS
 ST 330 TS
 ST 460 TS
 ST 525 TS
 ST 530 TS
 ST 575
 ST 577
 ST 85
 ST 9 TS
 St S 18/8
 ST T 17/13 W

Aceros inoxidables:

Stainless steel:

1.3912 - Ni 36
 1.3952 - X2CrNiMoN 1814
 1.3964 - X2CrNiMnMoNNb21-16-5-3
 1.3974 - X2CrNiMnMoNNb23-17-6-3
 1.4000 - X6Cr13
 1.4006 - X12Cr13
 1.4021 - X20Cr13
 1.4024 - X15Cr13
 1.4034 - X46Cr13
 1.4057 - X17CrNi16-2
 1.4104 - X14CrMoS17
 1.4112 - X90CrMoV18
 1.4119 - X 15 CrMo 13
 1.4120 - X20CrMo13
 1.4122 - X39CrMo17-1
 1.4301 - X5CrNi18-10
 1.4305 - X10CrNiS18-9
 1.4306 - X2CrNi19-11
 1.4307 - X2CrNi18-9
 1.4313 - X4CrNi13-4
 1.4320 - X2CrNiMo13-4
 1.4361 - X1CrNiSi18-15-4
 1.4401 - X5CrNiMo17-12-2
 1.4404 - X2CrNiMo17-13-2
 1.4406 - X2CrNiMoN17-11-2
 1.4410 - X2CrNiMoN25-7-4
 1.4418 - X4CrNiMo16-5-1
 1.4418mod - X4CrNiMo16-5-1
 1.4429 - X2CrNiMoN17-13-3
 1.4435 - X2CrNiMo18-14-3
 1.4438 - X2CrNiMo18-15-4
 1.4439 - X2CrNiMoN17-13-5
 1.4462 - X2CrNiMoN22-5-3
 1.4462A1-A3 - X2CrNiMoN22-5-3
 1.4501 - X2CrNiMoCuWn25-7-4
 1.4529 - X1NiCrMoCuN25-20-7
 1.4533 - X6CrNiTi18-10S
 1.4539 - X1NiCrMoCu25-20-5
 1.4541 - X6CrNiTi18-10
 1.4542 - X5CrNiCuNb16-4
 1.4547 - X1CrNiMoCuN20-18-7
 1.4548 - X5CrNiCuNB17-4-4
 1.4550 - X 6 CrNiNb 18-10
 1.4553 - X6CrNiNb18-10S
 1.4571 - X6CrNiMoTi17-12-2
 1.4577 - X3CrNiMoTi25-25
 1.4580 - X6CrNiMoNb17-12-2
 1.4582 - X4CrNiMoNb25-7
 1.4718 - X45CrSi9-3
 1.4828 - X15CrNiSi20-12
 1.4841 - X 15 CrNiSi 25 20
 1.4901 - X 10 CrWMoVNb 9-2 F92
 1.4902 - X14CrMoVNBn10-1
 1.4903 - X10CrMoVNB9-1/ F91
 1.4906 - X 12 CrMoWVNbN 1011
 1.4910 - X3CrNiMoN17-13
 1.4913 - X19CrMoVNBn11-1

1.4922 - X20CrMoV12-1
 1.4923 - X22CrMoV12-1
 1.4926 - X21CrMoV12-1
 1.4938 - X12CrNiMoV12-3
 1.4939 - X 12 CrNiMo 12
 1.4941 - X6CrNiTiB18-10
 1.4944 - X5NiCrTi26-15
 1.4961 - X8CrNiNb16-13
 1.4980 - X6NiCrTiMoVB25-15-2
 1.4981 - X8CrNiMoNb16-16
 1.4986 - X7CrNiMoBNb16-16
 1.4988 - X8CrNiMoVNB16-13

Norma Americana:

American grades:

A182 Gr. F11
 A182 Gr. F304
 A182 Gr. F304H
 A182 Gr. F304L
 A182 Gr. F316
 A182 Gr. F316LN
 A182 Gr. F316LN6
 A182 Gr. F316LNG
 A182 Gr. F316N
 A182 Gr. F316Ti
 A182 Gr. F317L
 A182 Gr. F321
 A182 Gr. F321H
 A182 Gr. F347
 A182 Gr. F347H
 A182 Gr. F430
 A182 Gr. F44
 A182 Gr. F46
 A182 Gr. F5
 A182 Gr. F51
 A182 Gr. F53
 A182 Gr. F55
 A182 Gr. F5a
 A182 Gr. F6NM
 A182 Gr. F60
 A182 Gr. F6a
 A182 Gr. F9
 A204 Gr. A
 A240 Type 316
 A276 Type 420
 A322 Gr. 4140
 A336 F91
 A350 Gr. LF1
 A350 Gr. LF2
 A350 Gr. LF3
 A694 Gr. F42
 A694 Gr. F46
 A694 Gr. F52
 A694 Gr. F56
 A694 Gr. F60
 A694 Gr. F65
 A694 Gr. F70
 A723 Cl.1
 A739 Gr. B22
 A743 Gr. CA6MN
 A765 Gr. II
 AISI 309
 AISI 317
 AISI 347

AISI 410
 AISI 420
 SA181 Cl. 60
 SA181 Cl. 70
 SA266 Cl. 1
 SA266 Cl. 2
 SA266 Cl. 4
 SAE 4140
 SAE 4340
 SAF 2507

Aleaciones Titanio:

Titanium alloys:

3.7035 - Titanio Gr. 2
 3.7164 - TiAl 6 V 4
 3.7165 - TiAl 6 V 4
 3.7235 - Titanio Gr. 7
 Grade 1
 Grade 2
 Grade 3
 Grade 4
 Grade 5
 Grade 7
 Grade 9
 Grade 23

Calidades ZF:

ZF qualities:

ZF 1
 ZF 1A
 ZF 6
 ZF 63
 ZF 68
 ZF 7B

Aleaciones base cobre:

Copper base alloys:

2.0070
 2.0440
 2.0550
 2.0966
 2.1197
 2.1504

Aluminio:

Aluminium:

3.1255 - AlCuSiMn
 3.1325 - AlCuMg1
 3.1355 - AlCu4Mg1
 3.1924 - AlCuMgNi
 3.2315 - AlMgSi1
 3.3547 - AlMg4.5Mn
 3.4345 - AlZuMgCu0.5
 3.4365 - AlZuMgCu1.5

Aleaciones base níquel:

Nickel base alloys:

1.4563 - X1NiCrMoCuN31-27-4
1.4876 - X10NiCrAlTi32-21
1.4958 - X5NiCrAlTi31-20
2.4360 - NiCu 30 Fe
2.4375 - NiCu 30 Al
2.4602 - NiCr 21 Mo 14 W
2.4610 - NiMo 16 Cr 16 Ti
2.4663 - NiCr23Co12Mo
2.4668 - NiCr19Fe19Nb5Mo3
2.4816 - NiCr15Fe
2.4819 - NiMo16Cr15W
2.4856 - NiCr22Mo9Nb
2.4858 - NiCr21Mo
2.4952 - NiCr20TiAl
Alloy 28
Alloy 59
Alloy 718
Alloy 800
Hastelloy® B2
Hastelloy® B3
Hastelloy® C 22
Hastelloy® C 4
Hastelloy® C276
Hastelloy® G
Hastelloy® C-2000
Hastelloy® X
Nilo® 36
Invar®
Nilo® 42
Invar®
Nitronic 50
Nitronic 60
Nimonic® 75
Nilomag® 77
Nimonic® 80A
Nimonic® 90
Nickel 200 / 201
Nimonic® 263
Incoloy® 330
Monel® 400
Monel® K 500
Inconel® 600
Inconel® 601
Inconel® 625
Inconel® 625 LCF
Inconel® 686
Inconel® 718
Inconel® X-750
Inconel® 825
Incoloy® 800
Incolloy® 800 HT
Incoloy® 825
Incoloy® 901
Incoloy® 925
Incoloy® A-286
Incoloy® DS Nilo® K
Kovar®
Waspalloy®