

GROUPES & SOUS-GROUPES DE MATÉRIAUX MATERIALS GROUPS & SUBGROUPS	DÉSIGNATION DESIGNATION	EXEMPLES EXAMPLES
1. ACIERS / STEELS		
1.1 Aciers doux magnétiques <i>Magnetic soft steels</i> Resistance <= 400 MPa		1.0718 S 250 Pb
1.2 Aciers de construction et de cémentation <i>Structural steels and case carburising steels</i> Resistance <= 700 MPa	Aciers de construction <i>Structural steels</i>	1.0035 A33 1.1141 XC 18
		1.0060 A60-2 1.0038 E24-2
1.3 Aciers au carbone <i>Carbon steels</i> Resistance <= 850 MPa		1.1158 XC 25 1.0904 55 S 7
		1.1181 XC 38 1.1191 XC 48
1.4 Aciers alliés <i>Alloyed steels</i> Resistance <= 850 MPa	Aciers à outils <i>Tool steels</i>	1.2363 Z 100 CDV 5
	Aciers rapides <i>High Speed Steels</i>	1.3243 HS 6-5-2-5
	Aciers alliés <i>Alloyed Steels</i>	1.5919 16 NC 6 1.7220 35 CD 4
	Aciers de nituration <i>Nitride Steels</i>	1.7361 30 CD 12
1.5 Aciers alliés / aciers traités <i>Alloyed steels / tempered steels</i> Resistance 850 - 1200 MPa	Aciers à outils <i>Tool steels</i>	1.3207 HS 10-4-3-10 1.2379 Z160 CDV 12
	Aciers traités <i>Tempered steels</i>	1.7225 42 CD 4
	Aciers de nituration <i>Nitride steels</i>	1.6580 30 CND 8
		1.2311 40 CMD 8
1.6 Aciers alliés / aciers traités <i>Alloyed steels / tempered steels</i> Resistance 1200 - 1600 MPa		1.6582 35 NCDV 6
		1.2713 55 NCDV 7 1.6747 35 NCD 16
1.7 Aciers traités <i>Tempered steels</i> Dureté / Hardness : 50 - 56 HRC		1.2343 Z 38 CDV 5
		1.2713 55 NCDV 7
1.8 Aciers traités <i>Tempered steels</i> Dureté / Hardness : 56 - 64 HRC		1.2379 Z 160 CDV 12
		1.3505 100 C 6
2. ACIERS INOXYDABLES / STAINLESS STEELS		
2.1 Aciers ferritiques <i>Stainless steels</i> Resistance <= 850 MPa		1.4104 Z 13 CF 17
2.2 Aciers austénitiques <i>Austenitic steels</i> Resistance <= 850 MPa		1.4404 Z 3 CND 17-12-03 (316L)
		1.4305 Z 10 CNF 18-09 1.4306 Z 2 CN 18-10 (304L) 1.4571 Z 6 CNDT 17-12
2.3 Aciers martensitiques et Duplex (ferritiques + austénitiques) <i>Martensitic and Duplex (ferritic + austenitic) steels</i> Resistance <= 1100 MPa		1.4125 Z 100 CD 17
		1.4410 Z 2 CND 25-7-4 1.4545 Z 7 CNU 15-05
3. FONTE / CAST IRON		
3.1 Fontes grises à graphite lamellaire ou malléables <i>Lamellar or malleable cast iron</i> Resistance <= 500 MPa		0.6020 FGL 200
		0.6025 FGL 250 0.6030 FGL 300 MN 350
3.2 Fontes grises à graphite lamellaire ou malléables <i>Lamellar or malleable cast iron</i> Resistance 500 - 1000 MPa		0.6060 FGL 600
		MN 700
3.3 Fontes grises à graphite sphéroïdal ou malléables <i>Nodular or malleable cast iron</i> Resistance <= 500 MPa		0.7043 FGS 370-17
		0.8040 MB 400-5 0.7050 FGS 500-7 0.8135 MN 350-10
3.4 Fontes grises à graphite sphéroïdal ou malléables <i>Nodular or malleable cast iron</i> Resistance 500 - 1000 MPa		0.7070 FGS 700-2
		0.8165 MN 650-3 0.7080 FGS 800-2
4. TITANE / TITANIUM		
4.1 Titane pur <i>Pure titanium</i> Resistance <= 700 MPa		3.7034 Ti 99.7
4.2 Alliages de titane <i>Titanium alloys</i> Resistance <= 900 MPa		3.7024 Ti 99.5
		3.7164 TA 6 V 3.7124 TU2
4.3 Alliages de titane <i>Titanium alloys</i> Resistance 900 - 1200 MPa		3.7164 TA 6 V 3.7124 TU2

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5. ALLIAGES RÉFRACTAIRES (NICKEL / COBALT / FER) / HEAT RESISTANT ALLOYS (NICKEL / COBALT / IRON)		
5.1 Nickel pur <i>Pure nickel</i> Resistance <= 700 MPa		Ni 99 C Si Ni 99.6
5.2 Alliages de nickel <i>Nickel alloys</i> Resistance <= 900 MPa		2.4816 Inconel 600 2.4602 Hastelloy C
		2.4665 Hastelloy X 2.4856 Inconel 625
5.3 Alliages de nickel <i>Nickel alloys</i> Resistance 900 - 1200 MPa		2.4631 Nimomic 80 2.4668 Inconel 718
		2.6554 Waspaloy
6. CUIVRE / COPPER		
6.1 Cuivre pur <i>Pure copper</i> Resistance <= 350 MPa		2.0060 E-Cu 2.0090 SF-Cu
6.2 Alliages de cuivre à copeaux courts <i>Copper alloys with short chips</i> Resistance <= 700 MPa	Laiton <i>Brass</i>	2.0410 CuZn44Pb2 2.0380 CuZn39Pb2
	Bronze <i>Bronze</i>	CuSn6Pb
6.3 Alliages de cuivre à copeaux longs <i>Copper alloys with long chips</i> Resistance <= 700 MPa	Bronze <i>Bronze</i>	2.1020 CuSn6 CuSn8
	Laiton <i>Brass</i>	CuZn40 2.1245 CuBe1.7 CuBe2
6.4 Alliages Cu-Al-Fe <i>Cu-Al-Fe alloys</i> Resistance <= 1500 MPa		Ampco 18 (Cu Al Fe 10.3) CuSn6Zn6
		Ampco 20 (Cu Al Fe 11.4)
7. ALUMINIUM MAGNÉSIUM / ALUMINIUM MAGNESIUM		
7.1 Al, Mg non alliés <i>Al, Mg not alloyed</i> Resistance <= 350 MPa		3.0305 Al 99.9 3.3308 Al 99.9 Mg 0.5
		Mg Al 2
7.2 Alliages d'aluminium <i>Aluminium alloys</i> Resistance <= 500 MPa		3.1325 Al CuMg4 3.3535 AlMg3
		3.4365 AlZnMg Cu 1.5
7.3 Alliages d'aluminium Si < 10% <i>Aluminium alloys Si < 10%</i> Resistance <= 400 MPa		3.2341 AlSi5Mg 1.2161 AlSi8Cu
7.4 Alliages d'aluminium Si > 10% <i>Aluminium alloys Si > 10%</i> Resistance <= 400 MPa		3.2381 AlSi10Mg 3.2581 AlSi12
8. MATIÈRES SYNTHÉTIQUES / SYNTHETICS		
8.1 Matières thermoplastiques <i>Thermoplastics</i>		Makrolon / Plexiglas (PMMA) Polypropylene (PP)
		Polyamide (PA) Nylon Polyéthylène (PEHD)
		Polyacétal (POM) Delrin PEEK / PPS
		PVC / PTFE Polycarbonate (PC)
	Polystyrene (PS) ABS	
8.2 Matières thermodurcissables <i>Thermosets</i>		Phenoplaste (Bakelite) Epoxy Polyester
8.3 Matières synthétiques renforcées par des fibres <i>Synthetics reinforced with fibres</i>		CFRP (carbon fibre) GFRP (glass fibre)
9. MATERIAUX FRITTÉS / SINTERED MATERIAL		
9.1 Cermets <i>Cermets</i> Resistance <= 1700 MPa		Ferro-Tic Ferro-Titanit
9.2 Alliages de tungstène <i>Tungsten alloys</i> Resistance <= 1800 MPa		Denal Densimet
10. GRAPHITE / GRAPHITE		
10.1 Graphite <i>Graphite</i>		