

M. Vincent and Associates, Ltd

Metal Sourcing and Supply since 1981

Materials Catalog

January 2007

*** If a material you need is not listed, please contact us. We'll find it for you.**

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Aluminum

Common Alloy: Sheet—Plate—Coil

1100 • 3003 • 5052 • 5083 • 5086 • 5454 • 5456 •

Tempers: "O" • "F" • H12 • H14 • H32 • H34 • H116 • H131 • H321 •

Heat Treatable Alloys: Sheet—Plate—Rod—Bar

2014 • 2219 • 2124 • 6013 • 6061

7050 • 7075 • 7150 • 7178 • 7475 •

Tempers: T3 • T351 • T4 • T451 • T6 • T651 • T7351 •

T7451 • T7651 • T7751 • T8151 • T851 • T87 •

Aluminum: Rod—Bar—Wire—Tube

1100 • 2011 • 2017 • 2024 • 6020 • 6061 • 6063 • 7075 •

Copper—Brass—Bronze

Copper

C-101 • 102 • 110 • 120 • 122 • 143 • 145 • 147 • 150 • 151 • 180 • 187 • 194 • 195

Beryllium Copper

C-170 • 172 • 173 • 175 • 17510

Brass—(Copper-Zinc Alloys)

C-210 • 220 • 230 • 240 • 260 • 270 • 274 • 280

Leaded Brasses—(Copper-Zinc-Lead Alloys)

314 • 320 • 330 • 340 • 360 • 365 • 370 • 385

Tin Brasses—(Copper-Zinc-Tin Alloys)

C-445 • 464 • 465 • 482 • 485

Copper-Aluminum Alloys—(Aluminum Bronzes)

C-623 • 624 • 630 • 636 • 642 • 954 • 95410-955

Copper-Silicon Alloys—(Silicon Bronzes)

C-642 • 651 • 655

Copper-Manganese Alloys—(Manganese Bronzes)

C-673 • 674 • 675 • 676

Copper-Nickel Alloys

C-706 • 715

Bronzes (Cast)—Bearing Bronzes

C-863 • 907 • 932(SAE 660) • 954

Copper Welding Alloys

RWMA class II, III, IV

Class 11, 12, 13, 14 (Copper-Tungsten Alloys)

Copper-Chromium Alloys

C-180 • 18150 • 182 • 184 • 187

Class

1—(C-162) • 2—(182) • 3—(17510) • 4—(172) • Rw, ns

Magnesium

Plate—Sheet—Rod—Bar

Alloys— AZ31B • AZ60A • AZ61A • HK21A • HK31A •

Per ASTM B-107—B90 • QQM-31—QQM-44

Plate cut to your specific requirements.

Nickel-High Temp Alloys

Nickel-Chromium Alloys

Inconel[®] 600 • 601 • 625 • 718 • x-750 •

Nickel-Chromium-Iron Alloys

Inconoy[®] 800 • 800-HT • 825

Nickel-Cobalt-Chrome Alloys

L-605 • N-155 • MP35N • C-188

Nickel-Iron Alloys

A286 • Hastelloys[®] • B-2 • C-22 • C-276

Nickel—Corrosion Resistant

200 • 201 • 205 • 233 • 270

Nickel-Copper Alloys

Monel[®] 400 • 401 • 405 • K-500

Pipe & Tubing

Outside diameter— .02 in. to 6.0 in.

Wall thicknesses— .003 in. to .5 in.

Lengths— Standard mill lengths up to 20 ft.; special lengths up to 40 ft.; exact cut lengths to .025 in. min.

Materials— Stainless steel, nickel and nickel alloys, titanium, tantalum, cupronickel alloys, hi temp, gold & gold alloys, silver & silver alloys, platinum & platinum alloys, palladium.

Shapes— Rounds, squares, triangles, rectangles, ovals, half-rounds, hexagons, and fluted rounds. Other configurations available upon request.

Stainless-Nickel alloy-Titanium pipe from 1/8" IPS—36" OD

Plastics

Acrylics • Delrin • Ertalyte • Kynar • Lexan • Nylon • Peek

Phenolics • Polyethylene • Polypropylene • Teflon

Other high tech grades available on request

Refractory Metals

Plate—Sheet—Rod—Bar—Wire

Tungsten—Tungsten Alloys

Molybdenum

Tantalum—Tantalum Alloys

Niobium—Niobium Alloys

Zirconium

Glass to Metal Sealing Alloys
Shielding Alloys
Low Expansion Alloys

Plate—Sheet—Rod—Bar—Wire

Invar

Kovar

Alloy 42, 46, 48, 52

Hy Mu 80

Mu Metal

Magnifier Alloys

Stainless

Plate

13-8MO VM • 15-5PH VM • 15-7PH • 303 • 304/304-L • 309 •

310 • 316/316L • 321 • 330 • 347 • 405 •

409 • 416 • 420 • 430 • 440C

440C—Available cut to size and precision ground

Sheet—Strip—Foil

17-4PH • 17-7PH • 301 • 302 • 304 • 305 •

309 • 310 • 316 • 316L • 321 • 347 • 409 • 410 • 430

Available in thicknesses from .001—.187

Tempers available: Annealed, 1/4 hard, 1/2 hard, full hard

Finishes : 2D, 2B, #3, #4, #8

Rod—Bar—Wire

13-8MO VM • 15-5PH VM • 17-4PH • 17-7PH

AM-355 • 302 • 303 • 304-L • 304-L VM • 309 • 310

316 • 316-L • 316-L VM • 317 • 317-L • 321 • 330 • 347

410 • 416 • 416HT • 418 • 420 • 420-F • 430 • 430-F

430-FR • 431 • 440-A • 440-C • 440-C VM • 440-F •

440-SE • 455 • 465 • Nitronic 40-50-60

All alloys available precision ground or produced to your specifications

Many alloys available in Condition B or heat treated (i.e. H-900, H-1050, H-1150).

Specialty Steels

Sheet—Plate—Rod—Bar—Forgings

Aircraft Quality and Specialty Steels

4130 • 4140 • 4330 • 4340 • 4620 • 6150 •

9310 • 52100 • EDT 150 • Nitriding • 8620

Alloys available in the following conditions:

Cold finished • Ann. • Norm. • H.T. • N&T • Vacuum Melted

Maraging Steels

250 • 300 • 350

Abrasion Resistant Steels

AR 235 (T-1 321 BNN) • AR 400 (T-1 360 BNN) • AR 400 • AR 500 •
Corten

Electro Magnetic Iron

Rod • Wire

Spring Steels

1050 • 1075 • 1095 • 5160

Titanium

Plate—Sheet—Strip—Rod—Bar—Wire—Tube

Commonly stocked alloys:

6AL-4V • 6AL-4V (ELI) • 6AL-6V-2Sn • 6AL-2Sn-4Zr-2MO

CP Grades 1, 2, 3, 4

5AL-2.5Sn • 8AL-1 Mo-1V

Other alloys available on request

Tool Steels

Rod—Bar—Plate

O-1 • O-6 • A-2 • A-6 • D-2 • D-3 • W-1 • W-2 • S-1 • S-5

S-7 • H-13 • P-20 • 4140 prehard • VFM-15 • VFM-45 •

High Speed Steels

M-1 • M-2 • M-2 • M-3 • M-6 • M-7

M-10 • M-15 • M-30 • M-35 • M-41 • M-50 •

T-1 • T-2 • T-5 • T-15 • Powdered Metals

Gray Iron

Rounds —Squares— Rectangles—Plate • Grade 2

Ductile Iron

M-3 — 65,000 tensile

M-4 — 80,000 tensile