Material Specifications

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Contact us on:

- **Stainless Steel Cold Heading Wire**: 302, 302HQ, 304, 305, 316L, 410, 430 and more!
- **Stainless Steel Electro-Polishing Quality (EPQ) Wire**: 201, 204Cu, 304(L), 316(L)
- **Non-Ferrous Wire**: Brass Wire, Copper Wire, Silicon Bronze Wire, and more!
- **Nickel Wire and Shaped Wire**: 200, 400, Nichrome wire, square wire, flat wire and more!
302HQ STAINLESS STEEL
AUSTENITIC GRADE
(17-19% CHROMIUM / 8-10 NICKEL / 3-4% COPPER)

SPECIFICATION: ASTM A-493

CHARACTERISTICS

- GOOD HEADABILITY
- NON MAGNETIC
- CAN NOT BE HEAT TREATED
- EASILY WORK HARDENS

TEMPER RANGES:
ANNEALED: 88 ksi,(maximum)
LIGHTLY DRAFTED: 96 ksi,(maximum)
BEST SUITED FOR COLD HEADING: 70-90 ksi

FOR PRICE & AVAILABILITY CALL 800.474.2218
430 Stainless Steel
Ferritic Grade
(16-18% Chromium / .04% Carbon)

Specification: ASTM A-493

Characteristics

- Good Headability
- Magnetic
- Can Be Heat Treated

Temper Ranges:
Annealed: 75 ksi (maximum)
Lightly Drafted: 86 ksi (maximum)
Best Suited for Cold Heading: 65-85 ksi

For Price & Availability Call 800.474.2218
410 Stainless Steel
Martensitic Grade
(11.5-13.5% Chromium / .15% Carbon)

Specification: ASTM A-493

Characteristics
- Good Headability
- Magnetic
- Can Be Heat Treated

Temper Ranges:
Annealed: 82 ksi, (maximum)
Lightly Drafted: 87 ksi, (maximum)
Best Suited for Cold Heading: 70-90 ksi

For Price & Availability Call 800.474.2218
CDA 260 Yellow Brass
(70% COPPER / 30% ZINC)

SPECIFICATION: ASTM B-134

EXCELLENT COLD HEADING CHARACTERISTICS
MACHINABILITY RATING: 30%, (CDA 360 AT 100%)

TEMPER RANGES:
1/8 HARD: 50-65 ksi*
1/4 HARD: 62-77 ksi*
1/2 HARD: 79-94 ksi
3/4 HARD: 92-107 ksi
HARD: 102-117 ksi
SPRING: 120 ksi,(minimum)

*BEST SUITED FOR COLD HEADING

FOR PRICE & AVAILABILITY CALL 800.474.2218
CDA 102 Oxygen Free Copper (OFC)
(99.95% Copper, minimum)

Specification: ASTM B-187

Excellent cold heading characteristics
Machinability rating: 20%, (CDA 360 at 100%)

Temper ranges:

Soft Anneal: 28-37 ksi
Full Hard: 45-55 ksi
Best suited for cold heading: 37-45 ksi

For price & availability call 800.474.2218
CDA 110 Copper
(99.9% Copper, minimum)

Specification: ASTM B-187

Excellent Cold Heading Characteristics
Machinability Rating: 20%, (CDA 360 at 100%)

Temper Ranges:

Soft Anneal: 28-37 ksi
Full Hard: 45-55 ksi
Best Suited for Cold Heading: 37-45 ksi

For Price & Availability Call 800.474.2218
CDA 651 Silicon Bronze
(98.6% Copper / 1.4% Silicon)

Specification: ASTM B-99

Excellent cold heading characteristics
Machinability rating: 30%, (CDA 360 at 100%)

Temper ranges:

Annealed: 38-55 ksi
1/8 Hard: 50-65 ksi
1/4 Hard: 60-75 ksi*
1/2 Hard: 75-95 ksi*
3/4 Hard: 92-107 ksi
Hard: 90-110 ksi
Spring: 100 ksi, (minimum)

* Suited for cold heading

For price & availability call 800.474.2218
CDA 360 Leaded Brass

(61.5% Copper / 34.5% Zinc / 4% Lead)

Specification: ASTM B-16

Poor Cold Heading Characteristics
Excellent Machinability Characteristics

Temper Ranges:
Soft Anneal: 48 ksi (minimum)
1/2 Hard: 57 ksi (minimum)
Full Hard: 80 ksi (minimum)

Best Suited for Machining: 60-75 ksi

For Price & Availability Call 800.474.2218