

IBC Advanced Alloys - Copper Alloys



Product Data Sheet - C18200 Chrome Copper

Chemical Composition (Weight Percent)

DELIVERING SOLUTIONS

| Alloy | Chromium | Zirconium | Iron | Lead | Silicon | Copper |
|--------|-------------|-----------|----------|----------|---------|---------|
| C18200 | 0.60 – 1.20 | - | 0.10 max | 0.05 max | 0.10 | Balance |

Physical and Chemical Properties

DELIVERING SOLUTIONS

| Density lb/in ³ | Elastic Modulus (10 ⁶ psi) | Coefficient of Thermal Expansion (in./in./°F) | Thermal Conductivity (btu/ft.hr.°F) | Melting Temperature °F |
|----------------------------|---------------------------------------|---|-------------------------------------|------------------------|
| 0.321 | 17 | 9.5 x10 ⁻⁶ | 187 | 1950-1970 |

Typical Mechanical Properties

DELIVERING SOLUTIONS

| Alloy | Temper | Thickness | Tensile Strength ksi | 0.5% Offset Yield ksi | Elongation | Hardness HRc or HRb | Electrical Conductivity % IACS |
|---------------|--------|-----------|----------------------|-----------------------|------------|---------------------|--------------------------------|
| C18200 Plate | TF00 | All sizes | 55-60 | 40-45 | 25 | B65-70 | 80 |
| C18200 Rounds | TF00 | All sizes | 55-75 | 40-65 | 15 | B65-80 | 80 |

Forms Available:

Plate: Thickness 1.00 to 18.00 inches, width 36 inches max. x standard mill lengths up to 115 inches.

Rounds: Diameter 4.00 to 18.00 inches, standard mill lengths.

Rings: To 55.0 inches O.D.

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