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ELKONITE® BAR STOCK

TYPICAL PROPERTIES OF ELKONITE® MATERIALS
(See CMW Inc. Catalog Series 200)

| Elkonite® Material | Composition % by Weight | Density | | Electrical | | Theoretical | | Hardness (Rockwell) | Modulus of Rupture In Bending | | ASTM Specification |
|--------------------|-------------------------|---|--------------------|--------------------|-----------------------|---|--|---------------------|-------------------------------|--------|--------------------|
| | | g/cm ³ or (Mg/m ³) | lb/in ³ | Conductivity %IACS | Resistivity (n-ohm-m) | Thermal (Btu-h ⁻¹ -ft ⁻¹ -F ⁻¹) | Conductivity (W-m ⁻¹ -K ⁻¹) | | psi | (MPa) | |
| 1W3 | 55W:45Cu | 12.50 | .452 | 53 | (32.5) | 180 | (310) | 77HRB | 110.000 | (758) | B702 |
| 3W3 | 68W:32Cu | 13.93 | .503 | 50 | (34.5) | 160 | (280) | 90HRB | 130.000 | (896) | B702 |
| 5W3 | 70W:30Cu | 14.18 | .512 | 48 | (35.9) | 160 | (280) | 95 HRB | 140.000 | (965) | B702 |
| 10W3 | 75W:25Cu | 14.84 | .536 | 45 | (38.3) | 150 | (260) | 98 HRB | 150.000 | (1030) | B702 |
| 10W53 | 75W:25Cu* | 14.79 | .534 | 28 | (61.6) | 85 | (150) | 109 HRB | 200.000 | (1380) | B702 |
| 30W3 | 80W:20Cu | 15.56 | .562 | 41 | (42.1) | 145 | (250) | 103 HRB | 170.000 | (1170) | B702 |
| TC5 | 50WC:50Cu | 11.26 | .408 | 45 | (38.3) | 170 | (290) | 94 HRB | 160.000 | (1100) | - |
| TC10 | 56WC:44Cu | 11.64 | .421 | 42 | (41.0) | 160 | (280) | 100 HRB | 180.000 | (1240) | - |
| TC20 | 70WC:30Cu | 12.65 | .457 | 30 | (57.5) | 140 | (240) | 37 HRC | 200.000 | (1380) | - |

*Cu Alloy 10W53 FULLY HEAT TREATED

ELKONITE® 10W3 ROUND BARS—8 INCH LENGTH

| FINISHED DIAMETER | PART NUMBER | FINISHED DIAMETER | PART NUMBER |
|-------------------|--------------|-------------------|--------------|
| 1/8 | 15-140200-64 | 3/4 | 15-141200-64 |
| 3/16 | 15-140300-64 | 7/8 | 15-141400-64 |
| 1/4 | 15-140400-64 | 1 | 15-141600-64 |
| 5/16 | 15-140500-64 | 1-1/8 | 15-141800-64 |
| 3/8 | 15-140600-64 | 1-1/4 | 15-142000-64 |
| 7/16 | 15-140700-64 | 1-3/8 | 15-142200-64 |
| 1/2 | 15-140800-64 | 1-1/2 | 15-142400-64 |
| 9/16 | 15-140900-64 | 1-3/4 | 15-142800-64 |
| 5/8 | 15-141000-64 | 2 | 15-143200-64 |

ELKONITE® 10W3 RECTANGULAR BARS—8 INCH LENGTH

| SIZE-INCHES | | | SIZE-INCHES | | | SIZE-INCHES | | | | |
|-------------|-------|--------------|--------------|-------|--------------|--------------|--------------|--------------|--------------|--------------|
| THICK | WIDTH | PART NUMBER | THICK | WIDTH | PART NUMBER | THICK | WIDTH | PART NUMBER | | |
| 1/8 | 1/8 | 15-140202-64 | 5/16 | 5/16 | 15-140505-64 | 1/2 | 1-1/2 | 15-142408-64 | | |
| | 1/4 | 15-140402-64 | | 3/8 | 15-140605-64 | | 2 | 15-143208-64 | | |
| | 5/16 | 15-140502-64 | | 1/2 | 15-140805-64 | | 4 | 15-146408-64 | | |
| | 3/8 | 15-140602-64 | | 5/8 | 15-141005-64 | 5/8 | 5/8 | 15-141010-64 | | |
| | 1/2 | 15-140802-64 | | 3/4 | 15-141205-64 | | 3/4 | 15-141210-64 | | |
| | 5/8 | 15-141002-64 | | 1 | 15-141605-64 | | 1 | 15-141610-64 | | |
| | 3/4 | 15-141202-64 | | 1-1/4 | 15-142005-64 | | 1-1/4 | 15-142010-64 | | |
| | 1 | 15-141602-64 | | 1-1/2 | 15-142405-64 | 1-1/2 | 15-142410-64 | 3/4 | 3/4 | 15-141212-64 |
| | 1-1/4 | 15-142002-64 | | 2 | 15-143205-64 | 2 | 15-143210-64 | | 1 | 15-141612-64 |
| | 1-1/2 | 15-142402-64 | | 4 | 15-146405-64 | 4 | 15-146410-64 | | 1-1/4 | 15-142012-64 |
| | 2 | 15-143202-64 | | 3/8 | 3/8 | 15-140606-64 | 1-1/2 | | 15-143212-64 | 1-1/2 |
| | 4 | 15-146402-64 | | | 1/2 | 15-140806-64 | 2 | 15-143216-64 | 2 | 15-143216-64 |
| | 3/16 | 3/4 | | | 15-141203-64 | 5/8 | 15-141006-64 | 4 | 15-146412-64 | 4 |
| 1/4 | | 1/4 | 15-140404-64 | | 3/4 | 15-141206-64 | 1 | 1 | 15-141616-64 | |
| | | 5/16 | 15-140504-64 | 7/8 | 15-141406-64 | 1-1/4 | | 15-142016-64 | | |
| | | 3/8 | 15-140604-64 | 1 | 15-141606-64 | 1-1/2 | | 15-142416-64 | | |
| | | 1/2 | 15-140804-64 | 1-1/4 | 15-142006-64 | 2 | | 15-143216-64 | | |
| | | 5/8 | 15-141004-64 | 1-1/2 | 15-142406-64 | 4 | 15-146416-64 | 1-1/4 | 1-1/4 | 15-141616-64 |
| | | 3/4 | 15-141204-64 | 2 | 15-143206-64 | 1-1/2 | 15-142416-64 | | 1-1/2 | 15-142416-64 |
| | | 1 | 15-141604-64 | 4 | 15-146406-64 | 2 | 15-143216-64 | | 2 | 15-143216-64 |
| | | 1-1/4 | 15-142004-64 | 1/2 | 1/2 | 15-140808-64 | 4 | | 15-146416-64 | 4 |
| | | 1-1/2 | 15-142404-64 | | 5/8 | 15-141008-64 | 1-1/4 | 1-1/4 | 15-142020-64 | |
| | | 2 | 15-143204-64 | | 3/4 | 15-141208-64 | | 1-1/2 | 15-142420-64 | |
| | | 4 | 15-146404-64 | | 1 | 15-141608-64 | | 2 | 15-143232-64 | |
| | | | | 1-1/4 | 15-142008-64 | | | | | |

*Contact Factory For Additional Sizes