

CerMax™ High Temperature Round Flat Bottom Crucibles



- Alumina & Magnesium Oxide Crucibles
- Full Fired
- Inert to Molten Metals & Slags
- Thermal Shock Resistance
- High Dielectric & Mechanical Strength

| CerMax™ Round Crucibles – Magnesium Oxide / Alumina | | |
|--|-------------------|------------------|
| | Magnesium Oxide | Alumina |
| Max Operating Temp | 3270°F / 1800°C | 3000°F / 1649°C |
| Hardness | 5.5 | 9.0 |
| Specific Gravity g/cc | 3.45 | 3.9 |
| Density, lbs/in ² | .12 | .134 |
| Porosity, % | 4.5 | Nil |
| Thermal Expansion in/in/°F x 10 ⁻⁶ | 7.7 (13.9 for °C) | 3.5 (6.3 for °C) |
| Compressive Strength, psi | 120,000 | 340,000 |
| Flexural Strength, psi | 35,000 | 46,000 |
| Dielectric Strength, v/mil | 150 | 225 |
| Loss Factor at 1 MHz | - | .0018 |
| Dielectric Constant at 1 MHz | 9.6 | 9.3 |
| Thermal Conductivity, BTUx in/hrxft ² x°F (W/mx°K) | 15.0 (2.2) | 220 (31.7) |

Round Flat Bottom Crucibles

For "X" in the part number: use "M" for Magnesium Oxide
 use "A" for Alumina

| Part Number | OD | | Length | | Price |
|----------------|------|--------|--------|--------|------------|
| CC-FB-X-10010 | 1.00 | 25.40 | 1.00 | 25.40 | \$ 68.00 |
| CC-FB-X-10012 | 1.00 | 25.40 | 1.25 | 31.75 | \$ 74.00 |
| CC-FB-X-12512 | 1.25 | 31.75 | 1.25 | 31.75 | \$ 92.00 |
| CC-FB-X-12525 | 1.25 | 31.75 | 2.50 | 63.50 | \$ 130.00 |
| CC-FB-X-15020 | 1.50 | 38.10 | 2.00 | 50.80 | \$ 132.00 |
| CC-FB-X-15030 | 1.50 | 38.10 | 3.00 | 76.20 | \$ 166.00 |
| CC-FB-X-17525 | 1.75 | 44.45 | 2.50 | 63.50 | \$ 168.00 |
| CC-FB-X-17535 | 1.75 | 44.45 | 3.50 | 88.90 | \$ 206.00 |
| CC-FB-X-20020 | 2.00 | 50.80 | 2.00 | 50.80 | \$ 166.00 |
| CC-FB-X-20035 | 2.00 | 50.80 | 3.50 | 88.90 | \$ 230.00 |
| CC-FB-X-20050 | 2.00 | 50.80 | 5.00 | 127.00 | \$ 290.00 |
| CC-FB-X-20060 | 2.00 | 50.80 | 6.00 | 152.40 | \$ 328.00 |
| CC-FB-X-22535 | 2.25 | 57.15 | 3.50 | 88.90 | \$ 254.00 |
| CC-FB-X-25030 | 2.50 | 63.50 | 3.00 | 76.20 | \$ 252.00 |
| CC-FB-X-25055 | 2.50 | 63.50 | 5.50 | 139.70 | \$ 372.00 |
| CC-FB-X-30030 | 3.00 | 76.20 | 3.00 | 76.20 | \$ 330.00 |
| CC-FB-X-30040 | 3.00 | 76.20 | 4.00 | 101.60 | \$ 394.00 |
| CC-FB-X-30045 | 3.00 | 76.20 | 4.50 | 114.30 | \$ 426.00 |
| CC-FB-X-30057 | 3.00 | 76.20 | 5.75 | 146.05 | \$ 502.00 |
| CC-FB-X-35050 | 3.50 | 88.90 | 5.00 | 127.00 | \$ 526.00 |
| CC-FB-X-35060 | 3.50 | 88.90 | 6.00 | 152.40 | \$ 594.00 |
| CC-FB-X-40040 | 4.00 | 101.60 | 4.00 | 101.60 | \$ 514.00 |
| CC-FB-X-40060 | 4.00 | 101.60 | 6.00 | 152.40 | \$ 670.00 |
| CC-FB-X-45045 | 4.50 | 114.30 | 4.50 | 114.30 | \$ 620.00 |
| CC-FB-X-45060 | 4.50 | 114.30 | 6.00 | 152.40 | \$ 746.00 |
| CC-FB-X-50050 | 5.00 | 127.00 | 5.00 | 127.00 | \$ 732.00 |
| CC-FB-X-50080 | 5.00 | 127.00 | 8.00 | 203.20 | \$ 1000.00 |
| CC-FB-X-55055 | 5.50 | 139.70 | 5.50 | 139.70 | \$ 852.00 |
| CC-FB-X-60060 | 6.00 | 152.40 | 6.00 | 152.40 | \$ 1084.00 |
| CC -FB-X-600X0 | 6.00 | 152.40 | 10.00 | 254.00 | \$ 1530.00 |