



Our CFR-TCO™ helps reduce fogging on glass used in refrigerator and freezer doors.

CFR TCO™

Type: Coating For Refrigerator (CFR) and freezer Transparent Conductive Oxide (TCO).

Application: Commercial refrigerator and freezer Reach In Doors (RID) are often electrically heated to resist fogging and frost. AFG manufactures a broad range of transparent conductive coatings that act as the invisible heating element for this application. The transparent heating element can be tailored to specific customer requirements if the volume is sufficient. Standard resistance is 20, 55, 110, and 200 ohms per square. There is some shift in resistance during tempering or bending. The resistance after tempering is typically:

20 ohms/square becomes 21 ohms/square
 55 ohms/square becomes 70 ohms/square
 110 ohms/square becomes 170 ohms/square
 200 ohms/square becomes 250 ohms/square

AFG also sells Comfort E2 low emissivity glass coating to reduce heat loss from Reach In Doors. It is common to match one lite of Comfort E2 with a lite of CFR TCO for refrigerator/freezer Reach In Doors.

Specifications:

Transmission: Greater than 83%
 Haze: Less than .5%
 Electrical conductivity: 20, 70, 110, or 170 ohms/square standard. Special resistance levels available if volume is sufficient.
 Color suppression: Yes
 Temperable: Yes
 Bendable: Yes
 Durability: Coating is harder than the glass and is fired into the glass surface.
 Bus bar silver frit adhesion: Good