



Technical Product Information
CATHODIC PROTECTION
IMPRESSED CURRENT SYSTEMS

ELGARD™ 85 ANODE RIBBON MESH

Elgard 85 Anode Ribbon Mesh

Performance specifications

| | |
|--|--------------------------|
| Current Rating @ 110 mA/sq.m (10mA/sq.ft) | 2.8mA/m (0.85 mA/ft) |
| Expected life (NACE standard TM02944-94) | 75 years |
| Catalyst | Mixed Metal Oxide |
| Maximum anode concrete interface current density | |
| FHWA limit | 110mA/sq.m (10mA/sq.ft) |
| Short-term limit | 220mA/sq.m (20 mA/sq.ft) |

Dimensions

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|---|---------------------------------------|
| Width | 10mm (1/2") |
| Coil length | 76m (250ft) |
| Shipping weight per coil | 3.9 Kg (8.6 lbs) |
| Actual anode surface per unit length of anode | 0.025 sq.m/m (0.082 sq.ft/ft) |
| Expanded thickness | 1.30 mm (0.051") |
| Thickness | 0.9mm (0.035") |
| Diamond dimensions | 2.5mmx4.6mmx0.6mm (10"x18"x0.025") |
| Shipping weight per coil | 1.4 Kg (3.1 lbs) |

Substrate

| | |
|---|--|
| Composition | Titanium, Grade 1 per ASTM B265 |
| Coefficient of thermal expansion | 8.7 x 10 ⁻⁵ /Deg K (0.0000048/in/in/Deg K) |
| Thermal conductivity @ 20 Deg C | 15.6 W/sq.m-DegK (9.0 BTU/hr/sq.ft/Deg F./ft) |
| Electrical resistivity | 0.000056 ohm-cm (0.000022 ohm-in) |
| Modulus of elasticity | 105 GPa (14,900,000 PSI) minimum |
| Tensile strength | 245 MPa (35,000 PSI) minimum |
| Yield strength | 175 MPa (25,000 PSI) minimum |
| Elongation | 24% minimum |
| Resistance lengthwise | 0.49 ohm/m (0.15 ohm/ft) |
| Current distributor resistance lengthwise | 0.049 ohm/m (0.015 ohm/ft) |



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