

Mu/Ferro Plating

6800 - Technical datasheet

Description

Mu-Ferro is an electrical / magnetic very poorly permeable material ($\mu \rightarrow \infty$ or $\epsilon \rightarrow \infty$). If this applies then the conditions (continuous tangential components), this tangential components in a magnetic flux density completely transformed. Normal components will be reflected (transmission coefficient = 0). This makes the magnetic field opting shorted.

Mu-Ferro is a multilayered, Mu-Ferrous metal galvanized to BS EN 10147:1992 with a two-sided galvanized layer gr./m² 275 total. Then is a "no-rinse pre-treatment layer. The coating consists of nom. 45µm high corrosion resistant primer and a topcoat. Mu-Ferro has a tough galvanizing system of construction is solid and contains no chloride or air bubbles.

Field of application

Mu-Ferro can be used in rooms or devices which creates a disturbing (electro)-magnetic field. By the properties of the Mu-Ferrous materials are repealed these fields for 95% (depending on the application of the system, for more information contact your supplier).

Properties	Test Method	Value
Hardness	ECCA T4 (ASTM D3363)	120-180 Brinell
Cracking	ECCA T5 (ISO 6272)	40 Joule
Suture	ECCA T6 (ISO 1520)	No delamin. Cuppingtest
T-Bend	ECCA T7	3T to 5T for flat material: Embossed
Salt spray test	ECCA T8 (ASTM B 117-90)	2000 hour
Condensation test	NCCA-III-6 (ASTM D2247-87)	1000 hour
UV test QUV (VB 313 light)	ECCA T10	672 hours: No changes observed
SO Resistance	ECCA T16 (DIN 50018)	30 cycli
Durable	ASTM 968-9	124 liter sand
Linear expansion coefficient at 23 °C	-	$8,2 \times 10^{-6} K^{-1}$
Resistivity	-	75-85 µOhm/cm
Elasticity Modulus	-	150-190 Gpa
Density	-	8,55 g/cm
Thermal conductivity at 23 °C	-	812,4 Wm ⁻¹ K ⁻¹

Processing

The recommended minimum fluid operating temperature is -10 °C. and 30 °C. Mu-Ferro is in normal blocks and profile bending machines are processed.

Environmental tax

Mu-Ferro can almost always be used in a rural, urban, industrial and maritime climates, or combinations thereof. (When in doubt, contact the supplier).

Corrosion resistance

The long functional life of Mu-Ferro is dependent on many factors, including use as wall or roof, the roof, local environmental factors, and emissions and deposition of pollutants. Mechanical damage, including scratches, should be updated.

Special product handling

Using rough blade or grinding wheel and causing damage. Cut edges should be smooth and clean cut. Work on the product should be done with proper tools and a good condition of this tool. Storage of Mu-Ferrous plates, profiles must be well ventilated and dry place. When storing large temperature fluctuations and condensation should be avoided.

