



Micro-Cracked Chromium Coating

Specifications:

- QQ-C-320
- AMS-QQ-C-320
- AMS 2460
- AMS 2406
- MIL-STD-1501
- ASTM B 177

Nuclear Specifications:

- MIL-DTL-23422
- MIL-C-23422

User Benefits:

- Low coefficient of friction
- Non-adhesive
- Excellent corrosion resistance
- Non-magnetic properties
- Maximum resistance to abrasion and erosion
- Helps increase life of plated parts
- Easily coats partial surfaces, sharp edges and complex shapes

TM 105 Engineered Chrome

A unique hard chrome that is brighter, harder and more corrosion resistant than standard hard chrome plating. Deposits of our TM 105 can be plated up to 72 Rockwell C. Its brightness and low coefficient of friction make it ideal for the production of molds and metal cutting tools.

TM 105 is best known for its release properties, excellent wear resistance and anti-seizure characteristics. This coating is popular in the aerospace, nuclear, transportation, canning and food vending industries to name a few.

Properties	Typical Value	Std. Chrome
Size of Cracks	Micro/Non-Continuous	Micro/Continuous
Melting Point (°C)	1875-1920	
Coefficient of Friction	0.12-0.17	0.12-0.16
Knoop or Vickers Hardness (100g load)	1050-1200	850-1000
Rockwell Hardness C Scale	68-72	62-66
Taber Abraser Wear Test		
Wt./loss mg/1,000 cycles	9	12
Falex Wear Test (mg)		
	6	12
Linear Coefficient Expansion		
Microinch/inch/ °C	8.1	8.1
Thermal Conductivity		
Cal/sq. cm/sec/cm thickness°C @ 18°C	.16	.16
Thickness Controllability .001" deposit		
Smoothness (microinch < 10 substrate)	.0003 5-15	.0005 15-30

Call: (937) 253-5311

www.techmetals.com