



Braycote 194

Corrosion Preventive Compound Solvent Cutback

Description

Castrol Braycote™ 194 is a dark brown, liquid corrosion preventive compound intended for indoor exposure. It is a solvent cutback material designed for cold application, and dries in approximately two hours, leaving a firm, amber, transparent film that will not flow below 175°F (80°C).

Application

Braycote 194 is designed to protect unpainted metal surfaces from the effects of indoor or shed exposure for periods up to one year. It is non-corrosive and readily wets the surfaces of commonly used metals, leaving a continuous film after evaporation of the solvent. This product may be applied by spray, dip or brush. A gallon will cover approximately 300 to 1,600 square feet, leaving a film 1 to 4 mils thick, depending upon method of application and surface geometry. Optimal performance can be achieved only when the metal surfaces to be protected are clean, dry and free of rust, oil and mill scale. It is recommended that the metal substrate and ambient temperature be 50-95°F (10-35°C) at the time of product application.

Additional Information

Removal

Braycote 194 can be removed from exposed surfaces by vapor degreasing, hot caustic, steam, or petroleum solvents.

Specification

Braycote 194 meets the requirements of and is qualified to MIL-PRF-16173E, Class I, Grade 4.

Typical Characteristics

Name	Method	Units	MIL-PRF-16173E specification	Braycote 194
Film Characteristics Transparency	MIL-PRF-16173E spec 4.6.11.7	Pass	Continuous and no cracks (Pass)	Pass
Non-volatile Content	MIL-PRF-16173E spec 4.6.5.1	%	54 - 60	55.3
Solvent Distillation Endpoint	MIL-PRF-16173E spec 4.6.1	°C/°F	212 / 410 max.	Pass
Sprayability @ 4°C / 40°F - 35 psig Flow Rate Quality of coverage	MIL-PRF-16173E spec 4.6.7	gm/sec Report	1.0 min. continuous	10.8 Pass
<u>Corrosion (7 days @ 55°C / 130°F)</u> Brass Cadmium Zinc Magnesium Aluminium Steel	MIL-PRF-16173E spec 4.6.8	mg/cm ²	± 1.0 max. ± 5.0 max. ± 7.5 max. ± 0.5 max. ± 0.2 max. ± 0.2 max.	-0.108 -1.473 -1.424 -0.023 -0.003 -0.007
Sulphated Ash content	ISO 3987 / ASTM D874	% wt	3.96 - 4.82	4.48
Flash Point - closed cup method	ISO 2719 / ASTM D93	°C/°F	38 / 100 min.	41 / 106
Removability	MIL-PRF-16173E spec 4.6.10.1	Pass	Pass	Pass
Film Thickness	MIL-PRF-16173E spec 4.6.11.2	ml	2.0 max.	1
Humidity Cabinet	MIL-PRF-16173E spec 4.6.11.3	Days	30 min.	Pass (30+)
Salt Spray	MIL-PRF-16173E spec 4.6.11.4	Days	14 min.	Pass (17+)
Flow Point (4 hrs @ 80°C / 175°F)	MIL-PRF-16173E spec 4.6.15	Pass	Pass	Pass
Low Temperature Adhesion	MIL-PRF-16173E spec 4.6.12	Pass	No Flaking	Pass
Pour Point	ISO 3016 / ASTM D97	°C/°F	Report	-18 / 0
Film Drying and Tackiness	MIL-PRF-16173E spec 4.6.13	Pass	Pass	Pass
Volatile Organic Content	MIL-PRF-16173E spec 4.6.5.2	lb/gal	>2.8	3.24
Stability	MIL-PRF-16173E spec 4.6.6	Pass	Pass	Pass

Subject to usual manufacturing tolerances.