



## Brayco 599

Rust Preventive Concentrate

### Description

Castrol Brayco™ 599 is a specially designed synthetic base, dark amber, rust preventative concentrate.

### Application

Brayco 599 is designed for use as an additive for turbine engines and helicopter transmissions which use MIL-PRF-23699 lubricating oil. Brayco 599 should be added to the oil sump immediately after an oil change when the equipment is intended to be placed in storage, especially in locations where high humidity and salt spray are present. The corrosion-inhibited oil should be capable of limited use, not to exceed 25 hours. Consult the engine manufacturer's manual to determine specific engine model recommendations and/or limitations.

### Typical Characteristics

| Test   | Method      | Units    | Specification Requirements | Result    |
|--|-------------|----------|----------------------------|-----------|
| API Gravity  | ASTM D 287  | degrees  | 17.4 - 6.6                 | 13        |
| Specific Gravity @ 16°C / 60°F   | API Table 3 | -        | 0.95 - 1.02                | 0.98      |
| Density @ 16°C / 60°F  | API Table 8 | lbs/gal  | 7.91 - 8.53                | 8.1       |
| Kinematic Viscosity @ 100°F  | ASTM D 445  | cSt      | 40 - 48                    | 46.0      |
| Kinematic Viscosity @ 40°C   | ASTM D 445  | cSt      | -                          | 41.7      |
| Kinematic Viscosity @ 210°F  | ASTM D 445  | cSt      | 6.6 Typ.                   | 7.0       |
| Kinematic Viscosity @ 100°C  | ASTM D 445  | cSt      | -                          | 6.8       |
| Flash Point, COC   | ASTM D 92   | °C / °F  | 218 / 425 Min.             | 226 / 440 |
| Total Acid Number  | ASTM D 664  | mg KOH/g | 23 Typ.                    | 24        |
| Pour Point   | ASTM D 97   | °C / °F  | -51 / -60 Max.             | -54 / -65 |
| Color  | ASTM D 1500 | -        | 4.0 Typ.                   | 3.5       |
| Rust Preventing Characteristics Procedure B, 1.2% dilution, 48 hrs, 60°C / 140°F | ASTM D 665  | -        | Pass                       | Pass      |

Subject to usual manufacturing tolerances.

## Additional Information

### Preparation

To receive full protection for extended equipment storage, Castrol recommends addition of Castrol Brayco® 599 in concentrations between 10 and 15 percent by volume. Lower concentrations, between 5 and 10 percent, may be suitable for some component storage applications depending upon storage conditions and length of storage. Consult the engine manufacturer's maintenance manual or service bulletin to determine specific engine model dilution ratio recommendations.

### Specifications

Castrol Brayco® 599 is used in MIL-PRF-23699 synthetic turbine oils at 10-15% by volume addition for storage. It meets the requirements of General Electric, Aircraft Engine Group Specification D50TF6-S2.

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