



## Product Data

# Brayco® Micronic 889

Dielectric Coolant Heat Transfer Fluid, Hydrolytically Stable

### [QC Lubricants](#)

CAGE CODE 9Y364

7360 Milnor St • Philadelphia, PA 19136

(215) 333-4187 Direct Line

Toll Free **With Extension:** (800) 887-2436

For Technical Assistance **Dial Extension 203** for Stan Jakubowski For  
Sales Assistance **Dial Extension 211** for Lu Ann Quinn

[QCLubricants.com for Brayco Micronic 889 Purchase and Information](#)

### **Description**

Brayco® Micronic 889 is a clear and bright, full synthetic polyalphaolefin based, heat transfer fluid and dielectric coolant.

### **Temperature Range**

-54°C to 135°C (-65°F to 275°F).

### **Uses**

Brayco® Micronic 889 is designed for use in electrical/electronic cooling of ground based and airborne closed loop systems. It offers high specific heat in comparison to other types of hydrocarbons, esters and silicone fluids. This product also provides superior oxidative stability, low temperature properties and the hydrolytic stability characteristic to polyalphaolefin based products. Brayco® Micronic 889 has excellent dielectric properties and is suitable for use with most common metals of construction. It is compatible with low acrylonitrile (BUNA N) and fluorocarbon elastomers.

### **Shelf Life**

Brayco® Micronic 889 has a maximum recommended shelf life of 6 years from date of manufacture. This shelf life assumes that the product is stored in its original unopened packaging in ambient temperature conditions.

### Specification

Brayco® Micronic 889 is qualified to and meets the requirements of MIL-PRF-87252C. This fluid is identified by NATO Code Number S-1748.

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## BRAYCO® MICRONIC 889 TYPICAL PROPERTIES

| TEST (ASTM) | DESCRIPTION  | MIL-PRF-87252C REQUIREMENT  | RESULT   |
|-------------|--|---|--|
| D 287       | Specific Gravity, 16/16°C (60/60°F), g/ml  | 0.79 – 0.806  | 0.799  |
| Table 8     | Pounds per Gallon  | 6.64 typical  | 6.65   |
| D 445       | Kinematic Viscosity, cSt<br>@ 100°C (212°F)<br>@ 40°C (104°F)<br>@ -40°C (-40°F)<br>@ -54°C (-65°F)  | 1.65 Minimum<br>5.0 Minimum<br>300 Maximum<br>1300 Maximum  | 1.71<br>5.17<br>272<br>1138                          |
| D 92        | Flash Point, COC, °C (°F)  | 150 Minimum   | 157 (315)  |
| D 92        | Fire Point, COC, °C (°F)   | 160 Minimum   | 177 (351)  |
| ASTM D-6304 | Water Content, KFR, ppm  | 50 Maximum  | 32   |
| D 664       | Total Acid Number (TAN), mgKOH/gm  | 0.20 Maximum  | 0.03   |
| D 877       | Dielectric Strength, KV  | 35 Minimum  | 44   |
| D 1169      | Volume Resistivity<br>25°C (77°F), ohm-cm  | 1.0 x 10 <sup>10</sup> Minimum  | 7.7 x 10 <sup>13</sup>                               |
| D 4636      | Corrosion and Oxidation Stability<br>121°C (250°F), 168 hrs<br>Copper Corrosion, ASTM D 130<br>Copper, weight loss, mg/cm <sup>2</sup><br>Steel, weight loss, mg/cm <sup>2</sup><br>Aluminum, weight loss, mg/cm <sup>2</sup><br>Magnesium, weight loss, mg/cm <sup>2</sup><br>Cadmium, weight loss, mg/cm <sup>2</sup><br>Viscosity at 40°C, change, %<br>Acidity change, mgKOH/g | 3A Maximum<br>0.4 Maximum<br>0.2 Maximum<br>0.2 Maximum<br>0.2 Maximum<br>0.2 Maximum<br>5 Maximum<br>0.5 Maximum | 3a<br>-0.02<br>0<br>0<br>0.008<br>-0.008<br>1.7<br>0 |
| FTM 3603    | Rubber Swell, Chloroprene (AMS 3217/3)<br>70°C (158°F), 168 hrs, %   | 0-10  | 7.8  |
| Spec 3.4    | Workmanship  |   | Pass   |
| D 287       | Density, g/ml<br>@ 0°C (32°F)<br>@ 20°C (68°F)<br>@ 40°C (104°F)<br>@ 100°C (212°F)<br>@ 160°C (320°F)   |   | 0.811<br>0.794<br>0.777<br>0.723<br>0.661            |

Health, safety and environmental information are provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products. User accepts all risks and liabilities if the product is used other than in the manner, with the precautions, or for the purpose(s) specified. Before using the product other than directed, please contact Air BP for consultation.  
Revised: June 27, 2006

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