



AMERICAN SYN 176

SYNTHETIC, METALWORKING FLUID CONCENTRATE

<p>APPLICATIONS</p>	<p>AMERICAN SYN 176 metalworking fluid is recommended for machining and grinding operations, including creep feed grinding, on non-ferrous or ferrous metals.</p> <p>Metals: Wrought aluminum alloys (2024, 6061, 7050, 7075), Cast aluminum alloys (380, 390), Cast Iron, Nodular Iron, Carbon Steels, Stainless Steels, Titanium, Other Exotic Alloys</p> <p>Duty Range: For moderate to heavy-duty operations</p>
<p>FEATURES & BENEFITS</p>	<p>AMERICAN SYN 176 metalworking fluid is a unique, low pH synthetic fluid designed for the aerospace industry.</p> <p>MEETS AEROSPACE REQUIREMENTS - Passes bi-metallic and aluminum (7075) “sandwich” corrosion tests - Approved product for many aerospace manufacturers</p> <p>EXCELLENT LUBRICITY - Provides excellent tool life and surface finish</p> <p>EXCELLENT CLEANLINESS - Rejects tramp oil to keep product clean, which extends sump life</p> <p>OPERATOR - FRIENDLY - Provides excellent part visibility - A fresh mix is transparent - No Smoke - Low misting - Mild to the skin</p> <p>EXCELLENT MACHINE COMPATIBILITY - Very low foaming product, even when used with deionized water</p> <p>EXCELLENT RANCIDITY CONTROL - Excellent fluid life - Minimizes the need for additives</p> <p>ENVIRONMENTALLY FRIENDLY - Easily recycled</p>

<p>RECOMMENDED STARTING DILUTIONS</p>	<p>FOR INDUSTRIAL USE ONLY Recommended Starting Dilution: 5% (1:20) Typical Operating Range: 5% (1:20) to 10% (1:10) For concentrations outside this range contact Technical Service.</p> <p>AMERICAN SYN 176 is to be mixed with water for use (add concentrate to water).</p> <p>Add no other substances to the concentrate or mix unless approved by Technical Services. Not recommended for use with magnesium or alloyed magnesium.</p> <p>For concentration analysis, use the Total Alkalinity Titration Procedure, BCG Titration Procedure, CIMCHEK™ Test Strip, or Refractometer.</p>
<p>TYPICAL PHYSICAL AND CHEMICAL PROPERTIES</p>	<p>Physical state: Liquid Appearance and odor: Clear / Chemical Colors available: Undyed Solubility in water: 100% Miscible Weight, lb/gal, 60°F (15.6°C): 9.02 Specific gravity, (H₂O = 1): 1.081 Boiling point, °F (°C): 212 (100) Flash point, COC, °F (°C): None, Self Extinguishing Fire point, COC, °F (°C): NA Freezing point, °F, (°C): 13 (-11) If frozen, product separates. Thaw completely at room temperature and stir thoroughly. pH, concentrate: 8.2 pH, 5.0% mix, typical operating conditions: 7.8 Total chlorine/chloride, wt%, calculated: 0.00/0.09 Total sulfur, wt%, calculated: 0.00 Silicones: None</p>
<p>PACKAGING</p>	<p>Available in 5-gallon pails, 55-gallon drums, and bulk containers.</p>
<p>REFRACTOMETER FACTOR = 1.7 Multiply the scale reading obtained on your refractometer by the Refractometer Factor to obtain the mix concentration in percent.</p> <p>NOTE: Calibrate the refractometer so that it reads 0.0 with water, before testing the sample mix. Remove gross contaminants from the sample mix before testing.</p>	
<p>For additional information concerning AMERICAN SYN 176, refer to its OSHA MSDS at www.americanoil1985.com or call 1-888-OIL-1895.</p> <p>Minor formulation changes or normal variations in the manufacture of this product may cause slight variances in the data presented on this sheet.</p> <p>American Oil & Supply Co LLC 12 Christopher Way, Suite 20 Eatontown NJ 07724</p> <p>PCAMOIL176 12/2/2008</p>	