

SMI, Inc.

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Submitted by: Michael Ohlmeyer
EnviroFluid
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Australia

Date: 16-Dec-2020
SMI/REF: 2006-832

Product: **PURASOLVE WEAPONS CLEANER** (received 13-Oct-2020)
Dilution: As received Page 1 of 2

MIL-PRF-680C (05 February 2010)

DEGREASING SOLVENT

Type II: High Flash Point (Military Symbol SD-2)

TABLE I. Degreasing solvent properties

Characteristic	Method	Type II		
		Requirement	RESULTS	
Flash point, °C (°F)	ASTM D 56	61-92C (141-198F)	68°C (155°F)	Pass
Distillation, °C: Initial boiling pt Dry point, °C	ASTM D 86	177C (min) 212C (max)	195°C 206°C	Pass Pass
Kauri-butanol value	ASTM D 1133	27 to 45	29	Pass
Aromatic content	ASTM D 3257	1 % v/v, max	< 1 % v/v	Pass
Total phenol content	EPA 420.1	0.5 ppm, max	< 0.1 ppm	Pass
Dichlorobenzene	EPA 8260B	0.5 mg/L, max	To be certified by Mfr.	
Benzene	EPA 8260B	0.5 mg/L, max	To be certified by Mfr.	
Tetrachloroethylene	EPA 8260B	0.7 mg/L, max	To be certified by Mfr.	
Trichloroethylene	EPA 8260B	0.5 mg/L, max	To be certified by Mfr.	
Specific gravity 60/60°F	ASTM D 1298	0.754 to 0.820	0.766	Pass
Total Chlorine Content	Water extraction, TCC determined using DPD Colorimetric Method	100 ppm, max	< 10 ppm	Pass
Non-volatile residue	ASTM D 1353	8 mg/100 mL max	4 mg / 100 mL	Pass
Color, min	ASTM D 156	25	> 25	Pass



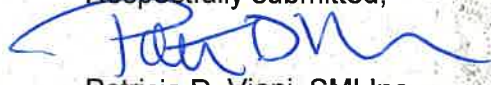
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 Product: **PURASOLVE WEAPONS CLEANER**
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 MIL-PRF-680C Type II

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TABLE I. Degreasing solvent properties (continued)

Characteristic	Method	Type II		
		Requirement	RESULTS	
Odor	ASTM D 1296	low non-residual	low non-residual	Pass
Corrosion, copper, max	ASTM D 130	1b	1b	Pass
Sandwich corrosion AMS 4037 Anodize AMS 4041 AMS 4045 Anodize AMS 4049	ASTM F 1110	1, max 1, max 1, max 1, max	1 1 1 1	Pass Pass Pass Pass
Total immersion corrosion AMS 4377 AMS-M-3171 Ty III AMS 4037 / AMS 2470 anod AMS 4911 Titanium AMS 5046 Steel Grade 1020	ASTM F 483	max wgt chg (mg/cm ² /168hrs) 0.50 0.15 0.10 0.25	< 0.05 < 0.05 < 0.05 < 0.05	Pass Pass Pass Pass
Titanium Stress Corrosion (AMS 4911 / AMS 4916)	ASTM F 945	No cracking	No cracking	Pass
Acidity	ASTM D 847	Neutral	Neutral	Pass
Doctor Test	ASTM D 235	Negative	Negative	Pass
Vapor Pressure, @ 20°C	ASTM D 2879	2.0 mm Hg, max	< 1.0 mm Hg	Pass
Soil cleaning test	FTM 791.7502	85 %, min	88 %	Pass
VOC, g/l, max	SCAQMD 313	Not required		

Respectfully submitted,



Patricia D. Viani, SMI Inc.

STATE OF FLORIDA
 COUNTY OF MIAMI-DADE

The foregoing instrument was acknowledged before me this 16 day of DEC 2020 by Patricia D. Viani as President for SMI, Inc., on behalf of the corporation. (Personally known to me).


 Lourdes M. Rodriguez, Notary Public

