AEROSHELL FLUID 602

AeroShell Fluid 602 synthetic base fluid is composed of highly branched, compact and very stable molecules known as polyalphaolefins (PAO), blended with additives to provide long term storage stability.

AeroShell Fluid 602 offers exceptional performance over a wide temperature range and does not react with water, resulting in clean systems and long fluid and component life.

APPLICATIONS

AeroShell Fluid 602 is most widely used as a cooling fluid for aircraft avionic systems, whose benefits include lower initial cost, longer fluid life, lower weight and lower toxicity when compared with other types of avionic system coolants. Since AeroShell Fluid 602 does not react with water, no reclamation equipment is required, adding further to the cost advantage.

SPECIFICATIONS

U.S.	Approved MIL-PRF-87252C
British	ī
French	1
Russian	i.
NATO Code	S-1748
Joint Service Designation	I

PROPERTIES	MIL-PRF-87252C	TYPICAL
Relative Density at 15.6/15.6°C	1	0.799
Viscosity mm ² /s		
()	1.65 min	1.77
@ 40°C	5.0 min	5.29
@ -40°C	300 max	280
@ -54°C	1300 max	1094
Viscosity Index	ť	145
Pourpoint °C	1	-73
Flash point °C	150 min	160
Fire point °C	160 min	171
Evaporation Loss at 204°C, 6.5 hr %m	ī	17
Total Acid Number mgKOH/g	0.2 max	< 0.01
Water content, Karl Fischer ppm	50 max .	35
Density g/cc Dilatometer	Ĭ	0.8058
@ 100°C	Ĭ Ĭ	0.7392
Specific Heat cal/g°C @ -17.8°C @ 37.8°C @ 149°C @ 260°C	1111	0.49 0.54 0.63 0.72

Table continued

agricient of Thermal pansion Dilatometer 1/°C to to 50°C to 100°C to 100°C to 190°C electric Constant wer Factor lume Resistivity @ 25°C ohm-cm to 15µm to 25µm to 25µm to 100µm Tricle Count, Automatic to 15µm to 25µm to 25µm to 100µm Tricle Compatibility commended (Swell <15%) frecommended (Swell <15%) frecommended (Swell >15%)	5000	MIL-PRF-87252C	TYPICAL
35 min 10000 max 1000 max 150 max 20 max	The second second	1111	1.26 1.21 1.12 1.12 1.02
m 1.0 x 10 to min 10000 max 150 max 20 max 5 max			
	0 to 50°C 50 to 100°C	F I	0.00083
- 1.0 x 10 ¹⁰ min 1.0 x 10 ¹⁰ min 10000 max 1000 max 20 max 5 max	ठं ठं	Γ 1 1	0.00103
35 min m 1.0 x 10 ¹⁰ min 10000 max 10000 max 150 max 20 max	Constant	Į.	2.10
7. 35 min m 1.0 x 10 ¹⁰ min 10000 max 10000 max 150 max 20 max 5 max	Factor 400	E	1 1 1 1 1 1
m 1.0 x 10 ¹⁰ min 10000 max 10000 max 150 max 20 max	breakdown Voltage,		47
10000 max 1000 max 150 max 20 max 5 max	Resistivity @ 25°C	.0 x 1010	×
1 1 1	tricle Count, to 15µm to 25µm to 50µm to 100µm	10000 max 1000 max 150 max 20 max 5 max	2664 345 10
1 1	Elastomer Compatibility Recommended (Swell <5%)	ı	Nitrile (N674-70)
Bung Z	Marginal (Swell <15%) Not recommended (Swell >15%)	1 1	Fluorosilicone Fluorocarbon Polyacrylate Nitrile (N497.70) Ethylene Propylene

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