



## Technical Data Sheet

Updated: 12/10/2019

### **HOT SHOT'S SECRET 750K 50/50 Anti-Freeze Poly Organic Acid Technology (POAT) Coolant**

#### **Product Overview**

HOT SHOT'S SECRET 750K 50/50 ANTIFREEZE contains a Poly-Organic/Multi-Organic additive package that meets ASTM D6210, as well as ASTM D3306 and ASTM D4985. It contains no amine, phosphate, silicate, borate, nitrate, nitrite, or 2-ethylhexanoic acid. HOT SHOT'S SECRET 750K 50/50 ANTIFREEZE meets the performance requirements of ASTM D6210 without nitrite or nitrite/molybdate, but still provides wet sleeve cylinder liner cavitation protection due to its unique formulation. A major advantage of this type of additive system is that it provides total cooling system protection for 750,000 on-road miles without the use of additive-containing coolant filters or supplemental coolant additives (SCAs). No maintenance is required, although it is recommended that a sample of the coolant be inspected quarterly to detect any problems such as significant color change, pH change, phase separation, precipitation, cloudiness, or obvious contamination. With the same coolant maintenance program, our 750K antifreeze will provide protection for 15,000 hours or 7.5 years whichever comes first.

HOT SHOT'S SECRET 750K 50/50 ANTIFREEZE's all organic formulation also has several other advantages. It is compatible with most types of coolant technologies including conventional inorganic acid salt formulations, most straight organic acid (OAT) formulations, hybrid organic acid formulations (HOAT), nitrited OAT formulations (NOAT) and other multi-organic acid formulations. HOT SHOT'S SECRET 750K 50/50 ANTIFREEZE is also much less sensitive to water hardness chemicals, which cause scale formation, as a result of its low chemical reactivity. This low reactivity also makes HOT SHOT'S SECRET 750K 50/50 ANTIFREEZE much less sensitive to contaminants such as motor oil and other coolants.



**Applications and Uses**

HOT SHOT'S SECRET 750K 50/50 ANTIFREEZE is suitable for passenger cars, vans, SUVs, light trucks, heavy-duty vehicles and many off-road applications such as stationary engine cooling systems. It will provide superior corrosion protection for all cooling system metals, including aluminum, steel, cast iron, copper, brass and solder alloys. Compliance with the many dissimilar antifreeze specifications in today's market also make it important to know what your additive package does not contain. HOT SHOT'S SECRET 750K 50/50 ANTIFREEZE allows you to meet most of these exclusion requirements.. A few uses include:

- ASTM D 3306
- ASTM D 4985
- ASTM D 6210
- ASTM D 6211
- ASTM D 1384
- ASTM D 4340
- TMC of ATA RP329
- TMC of ATA RP330
- TMC of ATA RP338
- ASTM D 1881
- ASTM D 2570
- ASTM D 2809

**Benefits**

- Safe with Brass
- Safe with Aluminum
- Safe with Iron
- Safe with Copper
- Safe with solder
- Safe with Steel
- Universal
- Pre-charged with SCAs
- Nitrate Free
- Nitrite Free
- Phosphate Free
- Borate Free
- Silicate Free
- Amine Free
- 2-ethylhexanoic acid Free
- 750,000 mile protection

**Directions for Use**

Fill or top off to cold radiator or fill. Do not dilute with water.

**Packaging**

Hot Shot's Secret 750K 50/50 Antifreeze is available in:

- 1 Gallon Jugs
- 55 Gallon Drums
- 330 Gallon Totes

**Typical Properties**

Property or Test	ASTM	Result
Freezing Point	<b>D-1177</b>	-34°F
Boiling Point	<b>D-1177</b>	226°F (with 15psi radiator cap)
Specific Gravity	<b>D-1122</b>	1.112

The Safety Data Sheet is available at:

<http://www.hotshotsecret.com/print-documents/>