



Tech Bulletin #: TB-1186	Part Number: 1186
Date Issued: January 2, 2020	Date Revised: n/a
Bar's Leaks® Liquid Aluminum™ Stop Leak	Size: 16.9 FL OZ (500 mL)

Radiator & Heater Core Stop Leak

Bar's Leaks® Liquid Aluminum™ Cooling System / Radiator & Heater Core Stop Leak is the best radiator stop leak money can buy. Scientifically formulated to permanently seal coolant leaks that are the cause of most overheating problems. Liquid Aluminum is part of the next generation stop leak line which not only seal leaks, but also conditions the system. Contains Xtreme Cool™ which stops overheating and reduces water temperature. It is guaranteed to safely and easily seal leaks in plastic, aluminum and metal (copper / steel) radiators, heater cores, gaskets and freeze plugs. It will not harm the cooling system, no draining is required. Use with ALL types of traditional or extended life coolant including yellow, orange, pink, red, blue, purple and green silicate based & non-silicate based (OAT/HOAT) 50-50 mix antifreeze, and/or water. For most vehicles leaks seal instantly.

STOP LEAK - Liquid Aluminum safely seals leaks in plastic, aluminum and metal radiators, heater cores, gaskets and freeze plugs. One of the few products to meet ASTM D6107 requirements for Stop Leak Additives used in Engine Coolants.

XTREME COOL™ - Xtreme Cool reduces the surface tension of coolant increasing the wetting ability. This improves heat transfer reducing coolant temperature helping to prevent overheating and leaks.

DANGER: Opening the cooling system while the engine is hot or running may cause severe burns.

NOTE: Cooling systems that are dirty or partially clogged should be flushed before usage.

Protect from freezing.

DOSAGE:

Add one bottle for 5, 6, 8 and 10 cylinder engines. Use 1/2 bottle in 3 and 4 cylinder engines. One bottle treats cooling systems from 10 quarts (2.5 gallons) to 16 quarts (4 gallons). Use 1/2 bottle for cooling systems from 6 quarts (1.5 gallons) to 9.9 quarts (2.4 gallons). For larger systems use one bottle for every 3 gallons of cooling system capacity. Small engines or other small systems use 4 to 5 fluid ounces per gallon of fluid capacity.



SATISFACTION GUARANTEED

If not satisfied, purchase price will be refunded by mail. Send original sales receipt and UPC to:
BAR'S PRODUCTS
Dept. 207, PO Box 187,
Holly, MI 48442

BAR'S LEAKS® TECHNICAL BULLETIN (CONTINUED)

Liquid Aluminum Stop Leak

INSTRUCTIONS:

- 1) Allow engine to cool. Make sure engine is cool enough so radiator cap can be safely removed.
- 2) Shake well. Pour Bar's Leaks Liquid Aluminum directly into radiator. One bottle treats systems up to 4 gallons. Use 1/2 bottle in 3 and 4 cylinder engines.

TIP: If direct access to radiator is not available, install in overflow tank.

- 3) Fill radiator and overflow tank to proper level and reinstall radiator cap.
- 4) Drive/idle engine for 15 to 20 minutes. If leak continues, second application may be required or mechanical attention is needed. For severe leaks, like a blown head gasket, it is recommended to use Bar's Leaks Head Gasket Fix or Blown Head Gasket Repair.
- 5) Leave Bar's Leaks Liquid Aluminum in cooling system for continued protection.

ASTM D6107 LABORATORY TEST

Standard Specification for Stop-Leak Additive for Engine Coolants Used in Light Duty Service

Part 1: ASTM D1881 TEST

Standard Test Method for Foaming Tendencies of Engine Coolants

Sample Run	Gum		Particles		Screen	Final Round	Final Slot	Fluid Lost mL
	Before	After	Before	After				
1	No	No	No	No	0.030	0.025	0.010	540
2	Yes	No	No	No	0.030	0.025	0.010	600
Average	Yes	No	No	No	0.030	0.025	0.010	570

Part 2: ASTM D3147 TEST

Standard Test Method for Testing Stop-Leak Additives for Engine Coolants.

This test method covers screening procedures for the preliminary evaluation of leak-stopping materials intended for use in engine cooling systems.

RUN # 1	1	2	3	Average
Foam Volume (mls)	75	80	75	75
Break Time (sec)	1.8	1.8	1.8	1.8

RUN # 2	1	2	3	Average
Foam Volume (mls)	85	85	80	85
Break Time (sec)	1.8	1.8	1.8	1.8

The results of this test show that a 0.025" round hole and a 0.010" wide slot can be successfully sealed with this product with a minimal fluid loss.