

TECHNICAL DATA REPORT

PURGE High-Pressure HVAC Line Set Flush | 140+ PSI High-Yield

Part Number: **PRG-1 PRG-2** | Recommended Use: A high-pressure flushing solvent blend designed to clean HVAC/R line sets of burnout residue, oils (POE/Mineral), and moisture before system replacement or retrofit.

1. Product Overview & Key Features

PURGE utilizes a high-concentration, non-flammable solvent blend designed to rapidly emulsify specific HVAC contaminants. The formulation provides both high solvency for breaking down hardened carbon deposits and a high-yield output of 140+ PSI for mechanical scouring and ejection. It is specifically formulated to be fully miscible with legacy mineral oils and high-density enough to displace standing water, while its low boiling point ensures rapid vaporization and removal during system evacuation.

Compliance and Performance Highlights

- High-Pressure Ejection: Delivers 140+ PSI @ 70°F for powerful mechanical scouring.
- Universal Compatibility: Non-Flammable status ensures safety for all systems, including A2L classified refrigerants.
- Comprehensive Contaminant Removal: Effectively emulsifies compressor burnout residue and solubilizes POE and Alkylbenzene oils.
- Moisture Displacement: Physically displaces standing water; low 106°F boiling point ensures remaining moisture boils off rapidly.
- High-Yield Capacity: Capable of flushing HVAC/R line sets up to a 10-ton capacity.
- Self-Evaporating Formula Requires immediate vacuum but leaves no residue upon proper evacuation.

2. Technical Data

Physical & Chemical Properties	
Internal Pressure	140+ PSI @ 70°F
Flammability Status	Non-Flammable (Safe for A2L)
Chemical Base/Resin System	High-Concentration Solvent Blend (HFC-134a Propellant)
Boiling Point (1 atm)	106°F (41°C)

Physical & Chemical Properties	
Color/Appearance	Clear, colorless liquid
Recommended Storage Temp	<50°C / 122°F

Application & Performance Metrics	
Maximum Line Capacity	Up to 10 Tons (Single Can)
Target Contaminants	Compressor Burnout Residue, Mineral Oil, POE Oil, Moisture
Required Wait Time (Flash Time)	N/A (Immediate flushing and evacuation required)
Vaporization Feature	Low 106°F boiling point for rapid removal
Post-Flush Requirement	Vacuum system to 500 microns (Full Strength)

CRITICAL USAGE WARNING: EXPLOSION HAZARD! Container contains gas under pressure; it may explode if heated. Do not pierce or burn, even after use. After flushing, the system **MUST** be evacuated using a vacuum pump to 500 microns to prevent debris and solvent residue.

3. Safety Data Sheet (SDS) Summary

Hazard Identification (GHS Classification)	
Signal Word	DANGER
Physical Hazards Summary	H280: Contains gas under pressure; may explode if heated. Aerosol.
Health Hazards Summary	H330: Fatal if inhaled. H336: May cause drowsiness or dizziness. H373: May cause damage to organs through prolonged or repeated exposure.
Reproductive Toxicity	Not Classified (Based on available H-Codes)
California Prop 65 Warning	None Specified

Handling, Storage, and First Aid	
Storage Temperature Limit	<50°C / 122°F

Handling, Storage, and First Aid	
Key Safe Handling Precautions	Do not handle until all safety precautions have been read. Avoid contact with skin, eyes and clothing. Keep away from all ignition sources (No smoking).
First Aid (Inhalation)	If difficulty breathing, remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor.
First Aid (Ingestion)	Seek immediate medical advice/attention. DO NOT induce vomiting. The product contains light hydrocarbon material associated with cardiac sensitization.

4. Frequently Asked Questions (FAQs)

What is the active flushing pressure of PURGE?

It delivers over 140 PSI (pounds per square inch) at 70°F, providing high mechanical scouring force necessary to eject sludge and carbon from line set walls.

Is PURGE safe to use on A2L classified refrigeration systems?

Yes, Purge is classified as Non-Flammable, which makes it safe for use in systems intended for all refrigerant types, including A2L refrigerants.

What types of contaminants does PURGE effectively remove?

It effectively removes compressor burnout residue (carbon/sludge/acid), mineral oil, alkylbenzene, moisture (water), and Polyol Ester (POE) oil.

How does PURGE handle moisture within the line set?

The high-density solvent physically displaces standing water, and its low boiling point of 106°F ensures any remaining moisture boils off rapidly during vacuum evacuation.

What is the maximum size system that one can of PURGE can clean?

One aerosol can of Purge is high-yield, capable of thoroughly flushing and cleaning line sets up to a 10-ton capacity.

What post-flush procedures are required after using PURGE?

The system must be immediately evacuated using a deep vacuum pump (recommended to 500 microns) to ensure the complete removal of all residual solvent, preventing trapped debris or damage.