

Product Bulletin



Elevance Clean® 1200 Product Line

Product Description

The Elevance Clean® 1200 product line includes superior performing, fast acting and VOC-exempt solvents for industrial degreasing applications that outperform conventional and bio-based predecessors. The Elevance Clean® 1200 product line, which includes Elevance Clean® 1200XA and Elevance Clean® 1200HT, enables superior degreasing performance in both mechanical and immersion cleaning applications, at neutral pH.

The Elevance Clean® 1200 product line consists of two products containing the same active material. Elevance Clean® 1200XA is a cleaning ingredient without added fragrance. Elevance Clean® 1200HT is Elevance Clean® 1200XA with fragrance added. The technical performance of both products is identical.

| Features | Benefits |
|--|---|
| ➤ VOC-exempt in the US and EU | ➤ Acceptable for use in all US states; meets all VOC regulations in the US and EU |
| ➤ Readily biodegradable | ➤ Safe to use |
| ➤ Non-flammable | ➤ Excellent degreasing performance |
| ➤ Derived from renewable plant oil | ➤ Stable in semi-aqueous formulations |
| ➤ Effective as supplied or formulated | ➤ Neutral pH formulation |
| ➤ Qualifies for use in Safer Choice-labeled products | ➤ Meet renewable product standards, requirements |
| ➤ Listed in the USDA BioPreferred® catalogue | |

Applications

Elevance Clean® 1200XA and Elevance Clean® 1200HT are designed for and excel in heavy manufacturing, transportation maintenance, repair and operations (MRO) and industrial food processing degreasing applications. They are powerful solvents and penetrants for tough-to-remove soils including but not limited to:

- Lithium complex greases
- Automotive lubricants
- Hardened animal and plant lipids
- Tar and bitumen
- Military specification greases
- Metalworking fluids
- Cooking greases
- Waxy paraffins
- Corrosion preventive oils
- Cooking oils

Elevance Clean® 1200XA and Elevance Clean® 1200HT exceed the degreasing efficacy of conventional and existing bio-based solvents while surpassing high environmental regulatory standards. Elevance Clean® 1200XA and Elevance Clean® 1200HT are high-performance, VOC-exempt replacements for solvents such as:

- d-Limonene
- Soy methyl esters
- Dibasic esters
- L-Turpentine
- Mineral Spirits
- Terpenes
- Aromatics

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Contact: CustomerService@elevance.com / 877-215-2795

Elevance Renewable Sciences, Inc. / 2501 Davey Road / Woodridge, IL 60517

Click link to request sample: <http://www.elevance.com/index.php/elevance-clean-1200-form>

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Chemical/Physical Properties

| Property | Typical Values |
|--------------------------------------|--|
| Appearance | Clear liquid; colorless to pale yellow |
| Active, wt. % | Min. 90 |
| Density at 25 °C, g/mL | 0.87 – 0.89 |
| Boiling point, °C, 760 mmHg | Min. 250 |
| Vapor pressure, 25 °C | <0.100 mmHg |
| Flash point, PMCC, °C | Min. 100 |
| Refractive Index at 25 °C | 1.44 |
| Surface Tension, mN/m | 29.66 |
| Melting Point, °C | -36 |
| RVOC, U.S. EPA, % | 0 |
| Kauri-butanol Value | 85 |
| Viscosity, 25 °C, cP | 3.36 |
| HSP values, calculated: ¹ | |
| δD , MPa ^½ | 16.1 |
| δP , MPa ^½ | 4.1 |
| δH , MPa ^½ | 5.3 |
| Solubility ² | |
| Water | Insoluble |
| Methanol, xylenes, terpenes | Soluble |

Handling Precautions

Product safety information required for this product is not included herein. Before handling, read material safety data sheet and container label for safe use, physical and health hazard information. The material safety data sheet is available from your local Elevance Clean® 1200 distributor.

How to Use

Elevance Clean® 1200 is a renewably sourced plant-based material that can be used in its pure form as a solvent replacement where VOC is a concern, blended with other solvents or emulsified with addition of surfactants for the preparation of aqueous systems for a variety of applications. It is compatible with a wide range of ingredients that are commonly used today in industrial degreasing products. See your local Elevance Clean® 1200 distributor.

Product Shelf-Life

Elevance Clean® 1200 has an indefinite shelf-life if stored in the original container, under inert atmosphere, in the absence of water and oxygen, at temperatures less than 40°C.

¹ Hansen solubility parameters for Elevance Clean® 1200HT were calculated using HSPiP 4th Edition 4.1.04.

² Solubility testing was conducted at 10% and 25% by weight.

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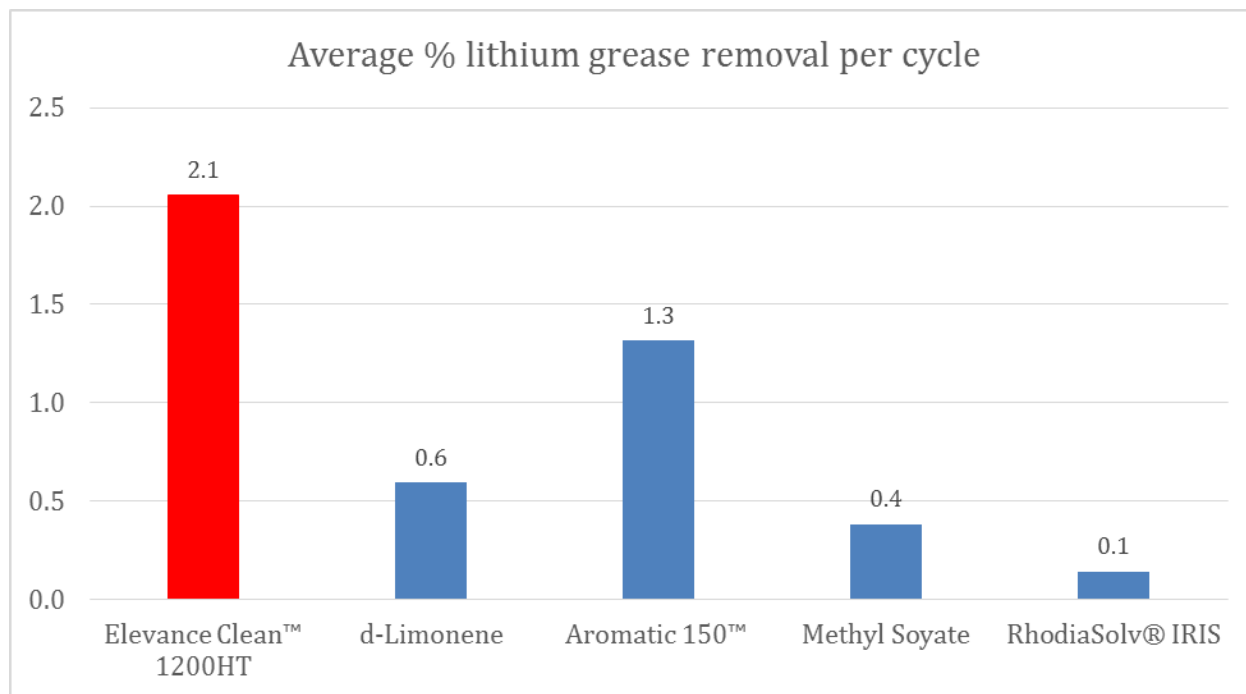
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Comparisons to common solvents:

Mechanical Degreasing

ASTM D4488-95 (mod) – Testing Cleaning Performance of Products Intended for Use on Resilient Surfaces
Aqueous microemulsion formulation tested: 20% solvent | 35% emulsifiers | 5% coupling agent



A standardized test of equal weight solvent microemulsions demonstrates that the Elevance Clean® 1200 product line shows powerful degreasing kinetics relative to existing industry benchmarks. The Elevance Clean® 1200 product line, 0% regulatory VOC semi-aqueous degreaser more rapidly removed cured lithium complex grease from stainless steel than its conventional solvent counterparts.

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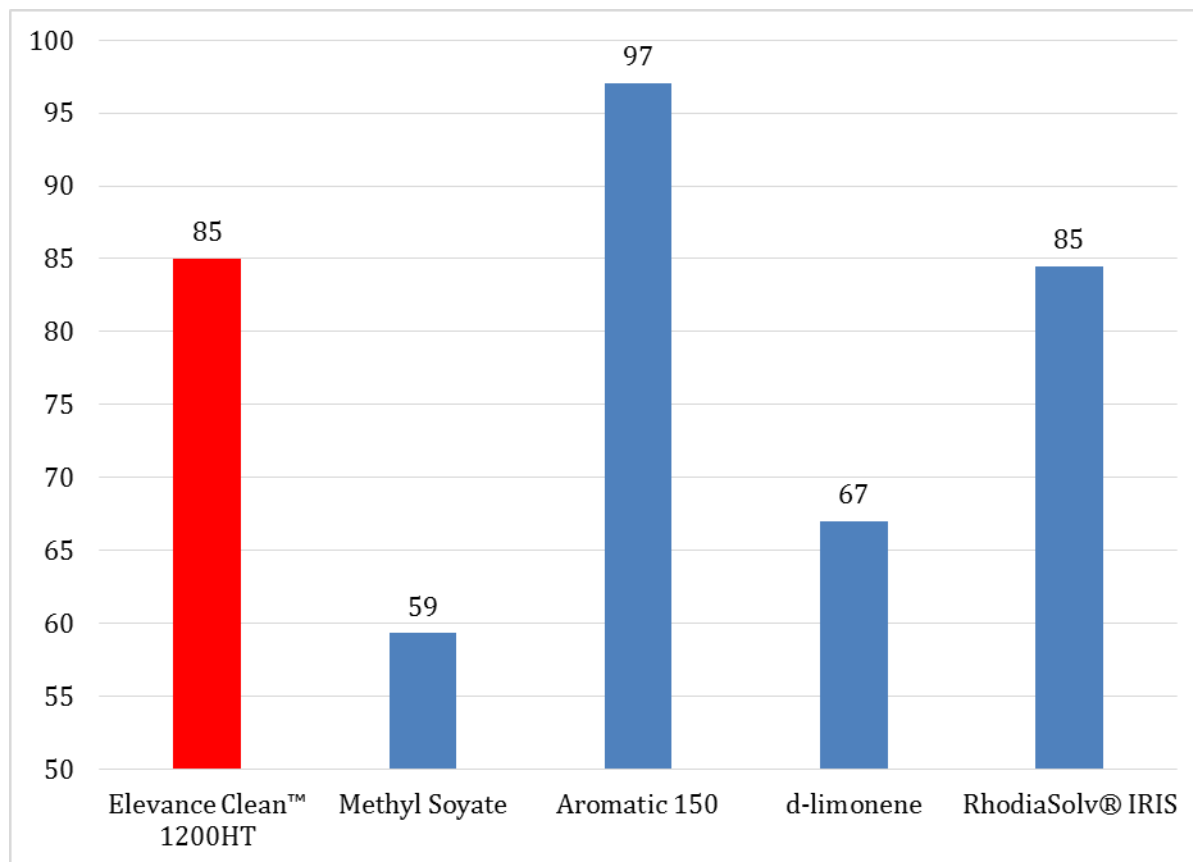
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Kauri-butanol Value

ASTM D1133 – Standard Test Method for Kauri-Butanol Value of Hydrocarbon Solvents



Kauri-butanol value (“Kb value”) is an international, standardized measurement of solvent power and is governed by an ASTM standardized test. The result of this test is a scale-less index. A higher Kb value is characteristic of solvent that is more aggressive in its ability to dissolve certain materials.

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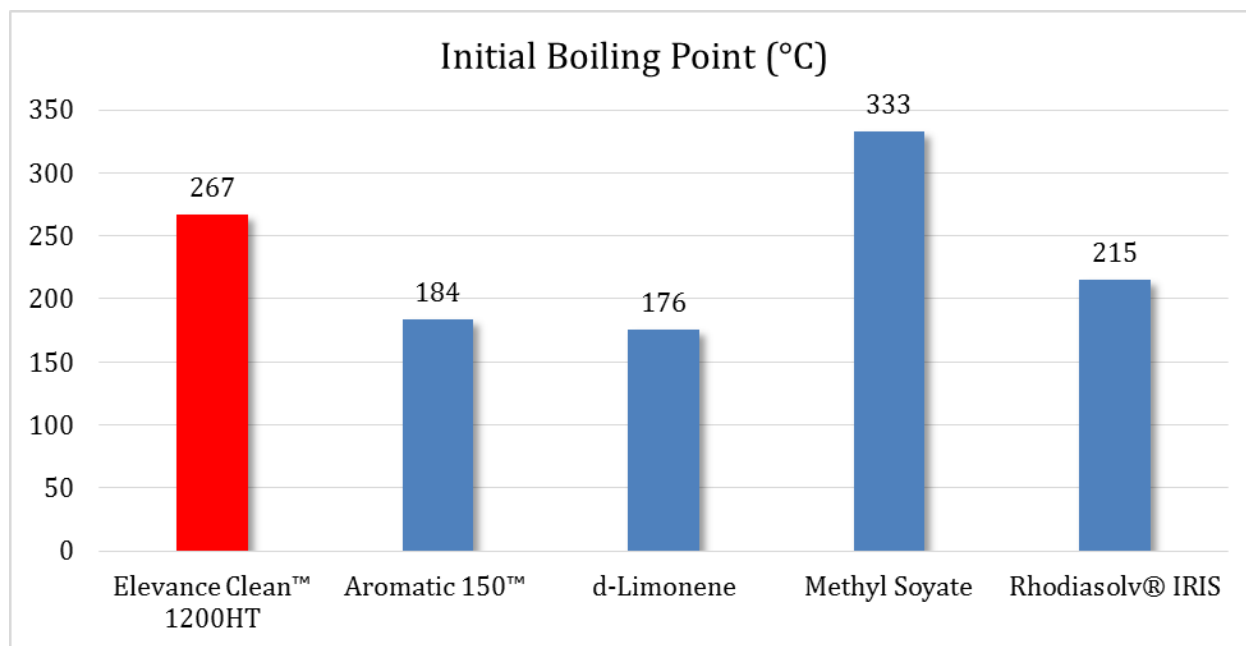
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Initial Boiling Point

ASTM D2887 – Test Method for Boiling Range Distribution of Petroleum Fractions by Gas Chromatography



Elevance Clean® 1200 product line is a low vapor pressure VOC (LVP-VOC), therefore its contribution to the VOC calculation is zero. Elevance Clean® 1200 product line does not contribute to the VOC calculation owing to its high boiling point and low vapor pressure, per 40 CFR 59.203 (f) - Standards for Consumer Products (US), as well as Directive 2004/42/CE of the European Parliament and the Council (EU).

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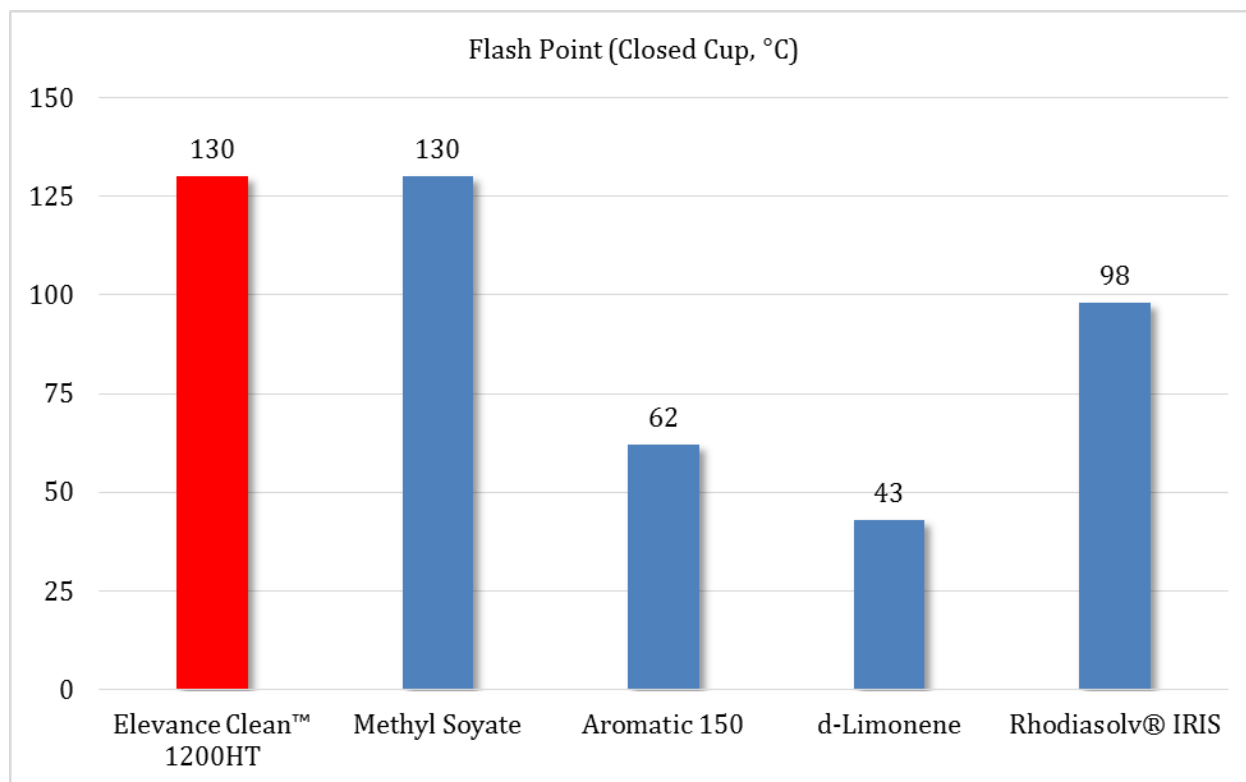
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Flash Point

ASTM D93 – Test Methods for Flash Point by Pensky-Martens Closed Cup Tester



Elevance Clean[®] 1200 product line is non-flammable, in accordance with OSHA standard 29 CFR 1910.106.

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