

A DIVERSIFIED BUSINESS
PORTFOLIO



**AUTOMOTIVE &
INDUSTRIAL
LUBRICANTS**



TRANSFORMER OIL



WHITE & MINERAL OIL



**FORMULATED
SPECIALITY PRODUCTS**



WIND ENERGY

ABOUT US

- **SAVSOL**, a quality product from the house of Savita Oil Technologies Limited with a legacy of 60+ yrs of “Bonds Build Businesses”
- Sales volume of ~ 3.79 Lacs KL and turnover of ~ Rs 2800 Cr+ (FY 2021-2022)
- Asia’s First carbon positive petroleum specialties company
- Shares listed on the BSE & NSE (since 1994)
- Wide range of products: Automotive & Industrial Applications
- Our Kharadpada Plant is IATF 16949 Certified

STATE OF ART MANUFACTURING

- Certified for ISO 9001:2015 & ISO 14001:2015
- All QC labs are well equipped and few of them are NABL accredited.
- R&D is recognized by Dep. of Science & Industrial Research, Gov. of India
- Applied for International Patents for our specialty formulations & products

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**MANUFACTURING FACILITIES
TURBHE (MH), MAHAD (MH),
KHARADPADA, SILLI (SILVASSA)**



Savita Oil Technologies Ltd. India's leading Petroleum Specialities manufacturing group, is known for its strong R&D base and its adherence to international quality standards ISO 9001 and ISO 14001. Its Silvassa Kharadpada plant is also certified under IATF 16949:2016

Since its inception in 1961, Savita has always set standards. It has strategically located refineries at Navi Mumbai, Mahad and Silvassa. With a sharp customer focus and an innovative attitude, the Savita Group is today India's largest exporter of Petroleum Specialities Transformer Oils, Liquid Paraffins, White Oils Industrial & Automotive Lubricants and Specialities - are some of the categories in which Savita has made a mark.

Savita is known globally to offer smart solutions to industry's most stubborn problems. Right from formulation to manufacturing and marketing, Savita leads the way. The group's endeavour is to fulfil its promise of total customer satisfaction by using the latest cutting edge technology to satisfy their needs.



COMPREHENSIVE INDUSTRIAL PRODUCT PORTFOLIO

"I keep the wheels of industry moving!"

Savsol Range of Industrial lubricants comprises of a wide product portfolio suitable for various types of equipment and machines. Savsol Industrial products are well accepted by Industry-leading OEMs and reputed manufacturers for their excellent quality, performance and services.



With Savsol's world-class industrial lubricants, you may not have to worry about stoppages and downtimes any more!

- Hydraulic Oils: HVI, HLP and Anti-wear type
- Industrial Gear Oils
- Quenching Oils
- Refrigeration Compressor Oils: Mineral & Synthetic
- Rolling Oils / Glass Mould Oils
- Turbine Oils
- Transmission Oils
- Thermic Fluids
- EP Greases
- Spindle Oils
- Spark Erosion Fluids

HYDRAULIC OIL RANGE



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SAVSOL HY FLUID HAFE



Description:

SAVSOL HY FLUID HAFE Series Oils are high performance High Viscosity Index, Ashless and Fuel Efficient Hydraulic Oils for modern Hydraulic systems. Savsol Hy Fluid HAFE oils are blended from highly refined hydro treated high viscosity index base oils along with Premium Ashless Hydraulic Technology with the environment in mind. It provides excellent protection to hydraulic systems against wear, corrosion, rust, oxidation and foaming.

Application:

SAVSOL HY FLUID HAFE Series Hydraulic Oils can be used in all new technology hydraulic equipment's to reduce the fuel consumption and hence increase the productivity. Recommended for use in hydraulic systems where in the power and controls systems are subjected to extreme ambient temperatures. Also best suitable for high precision hydraulic operations where longer drain intervals & wet filter ability is desired in more water prone areas.

Specifications:

SAVSOL HY FLUID HAFE Series Hydraulic Oils meet the following performance specification requirements:

- | | |
|---|--|
| ■ DIN 51524 Part III, II & I | ■ ISO 11158 (HV & HM) |
| ■ Parker (formerly Denison) HF-0, HF-1, HF-2 (HV/HM) | ■ Cincinnati MAG P-68 (VG 32), P-69 (VG 68) & P-70 (VG 46) |
| ■ SAE MS 1004 Type H Hydraulic Oil Specifications (HV Anti-wear & Viscosity Improver) | ■ GM LS-2 |
| ■ AGMA 9005-E02 Anti-wear | ■ Bosch Rexroth RE 90220 |
| | ■ Eaton Vickers 35VQ25 |

Viscosity Grades:
VG 32, 46, 68 & 100

SAVSOL HLP Series

Description:

SAVSOL HLP Series Oils are high performance Hydraulic Oils for modern Hydraulic High Pressure Pumps and Hydraulic systems. Savsol HLP Oils are blended from highly refined hydro treated high viscosity index base oils fortified with latest additive technology to provide complete protection on wear, corrosion, rust, oxidation and foaming.

Application:

SAVSOL HLP Series Hydraulic Oils can be used in to meet or exceed the performance requirements of all hydraulic equipment manufacturers and Industry Organization Specifications. These oils are recommended for sophisticated high performance hydraulic systems where high temperature and pressure are encountered.

Specifications:

SAVSOL HLP Series Hydraulic Oils meet the following performance specification requirements:

- | | |
|--|-------------------------------------|
| ■ DIN 51524 Part II & Part III | ■ ISO 11158 (HM & HL) |
| ■ Parker (formerly Denison) HF-0, HF-1, HF-2 (HM/HL) | ■ Cincinnati MAG P-68 (VG 32), P-69 |
| ■ Eaton Vickers M-2950-S & I-286-S3 | |

Viscosity Grades:
VG 32, 46, 68, 100 & 150

SAVSOL HY FLUID AW

Description:

SAVSOL HY FLUID AW Series Hydraulic Oils are high performance Anti-Wear hydraulic oil blended from highly refined hydro treated high viscosity index base oils fortified with Anti-Wear, Anti-Rust, Anti-Oxidant, Anti-corrosion and anti-foam additives to provide excellent protection against wear, rust & corrosion and oxidation.

Application:

SAVSOL HY FLUID AW Series Hydraulic Oils can be used in hydraulic systems operating under moderate to severe conditions. Recommended for use in hydraulic systems where high temperature, pressure and pump speed are encountered. Suitable for hydraulic systems, enclosed gear boxes, chain drives, vacuum pumps, machine tools etc.

Specifications:

SAVSOL HY FLUID AW Series Hydraulic Oils meet the following performance specification requirements:

- DIN 51524 Part II HLP
- IS 10522-1983 (Reaffirmed 1993) (VG 32 to 150)

Viscosity Grades:
AW 32,46,68,100,150,
220,320 & 460

SAVSOL HYDRAULIC OIL VG Series

Description:

SAVSOL HYDRAULIC OIL VG Series is high performance Hydraulic & Circulating Oil blended from highly refined base oils fortified with Anti-Wear, Anti-Rust, Anti-Oxidant additives to provide excellent protection against wear, rust & corrosion and oxidation.

Application:

SAVSOL HYDRAULIC OIL VG Series can be used in hydraulic systems operating under moderate to severe conditions. Recommended for use in hydraulic systems where high temperature, pressure and pump speed are encountered. Also suitable for Systems requiring Anti-Wear properties.

Specifications:

SAVSOL HYDRAULIC OIL VG Series meet the following performance specification requirements:

- DIN 51524 Part I
- ISO HM

Viscosity Grades:
VG 46 & 68.

INDUSTRIAL GEAR OIL RANGE



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SAVSOL GEAR OIL EP SERIES

Description:

SAVSOL GEAR OIL EP SERIES is premium quality extreme pressure industrial Gear lubricants meeting the stringent requirements of new generation gears of heavy industrial machinery. These oils are blended with high viscosity index base stocks and EP additives based on sulphur & phosphorus chemistry to provide the protection to machine gears against wear and corrosion.

Application:

SAVSOL GEAR OIL EP SERIES can be used in enclosed gear drives of industrial machinery working under heavy to shock load conditions. It can be used for lubrication of roller bearings, chain drives, highly loaded drives under extreme pressure conditions. Also suitable for Systems requiring Anti-Wear properties.

Specifications & Approvals:

SAVSOL GEAR OIL EP SERIES meet the following performance specification requirements:

- DIN 51527 Part III
- AGMA 9004-E02
- David Brown S1.53.101
- AISE 224

Viscosity Grades:
EP 220 & 320

THERMIC OIL RANGE



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SAVSOL THERMIC OIL 32

Description:

SAVSOL THERMIC OIL 32 is excellent heat transfer oil based on specially refined and hydro treated base oils and fortified with modern and effective oxidation inhibitors. The low volatility of the oil prevents build-up of excessive pressures in closed system. Its viscosity is suitable for a high ratio of circulation under a wide range of operating temperatures.

Application:

SAVSOL THERMIC OIL 32 is ideally suitable for long term application in both open and closed heating systems.

Closed Systems : It can be used upto a bulk temperature of 300°C in closed systems and film temperature of 340°C.

Open Systems : Can be used upto 200°C in open systems.

Recommendation:

SAVSOL THERMIC OIL 32 is recommended for heat transfer fluid applications in textiles, pharmaceuticals, chemical & processing industries.

SAVSOL SYNTERM SPECIAL

Description:

SAVSOL SYNTERM SPECIAL is an excellent heat transfer fluid using synthetic base stocks. This oil is formulated with high quality synthetic base fluid and selective anti-oxidants to provide maximum efficiency for longer service life. This oil gives excellent rapid heating because of its high specific heat and very good thermal conductivity.

Recommendation:

SAVSOL SYNTERM SPECIAL recommended in closed heat transfer systems where bulk operating temperatures goes upto 315°C and film temperature of 355°C. It is suitable for indirect heating systems of non-pressurized heating systems.

It is used in chemical, plastic, steam & hot water units, autoclaves, reaction vessels, textile industries, Air-conditioning Units, paper industry etc.

The operational temperature is between **-10°C to +300°C**

TURBINE OIL RANGE



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SAVSOL SUPER TURBINE FLUID

Description:

SAVSOL SUPER TURBINE FLUID are high quality super long life Turbine oils. They are formulated with high quality hydro-treated base oils and fortified with Anti-Wear & Rust Inhibitor additives which give excellent protection to all components of steam and gas turbines.

Application:

SAVSOL SUPER TURBINE FLUID recommended for use in large open and combined cycle, gas and steam turbines, high speed turbo compressors, turbo compressors for gas and atomic power generation turbines. These fluids offer long life nearly twice that of conventional turbine oils.

Specifications:

SAVSOL SUPERTURBINE FLUID Turbine Oils meet the specification requirements of leading OEMs like BHEL, Siemens, GE, ABB, Triveni Turbines, DLF and SKODA.

IS 1012-2002 Specification.

Viscosity Grades:

VG 32, 46, 57 & 68

SAVSOL SUPER TURBINE FLUID AW

Description:

SAVSOL SUPER TURBINE FLUID AW Series are high quality superior long life Turbine oils. They are formulated with high quality hydro-treated base oils (which have extremely low 'S') and fortified with EP & Anti-Wear additives which give excellent protection to geared steam and gas turbines. This technology is designed to give outstanding Demulsification performance and turbine oil life.

Application:

SAVSOL SUPER TURBINE FLUID AW Oils are recommended for use in large geared, open and combined cycle, gas and steam turbines, high speed turbo compressors, turbo compressors for gas and atomic power generation and turbines that operate under severe operating conditions. These fluids offer long life nearly twice that of conventional turbine oils.

Specifications:

SAVSOL SUPERTURBINE FLUID AW Turbine Oils meet the following performance specification requirements:

- | | |
|---|-----------------------------|
| ■ Siemens TLV 9013 04 (EP) | ■ GEK 32568G |
| ■ Siemens TLV 9013 05 (EP) | ■ GEK 27070 |
| ■ Alstom HTGD 90117 W0001 (EP) | ■ GEK 46505 E |
| ■ China's Turbine Specification GB 11120-2011 | ■ CM P-38, P-55, P-5 |
| ■ SKODA Tp 0010P/97 | ■ Czech Standard CSN65 6620 |
| ■ DIN 51524 Part I & Part II | |

Approved by

- SAVSOL SUPER TURBINE FLUID AW 32 & 46 are approved by SIEMENS for both TLV 9013 04 & TLV 9013 05 for Turbines with and without Gear applications.
- Approved by DOOSAN SKODA as per Tp 0010P/97.

Viscosity Grades:

AW 32, 46 & 68



SAVSOL
QUENCHING OILS

SAVSOL Q 001

Fully Formulated High Performance accelerated quenching Oil widely patronised by all major industries and commercial heat treaters. The propriety additive in Savsol Q001 ensures excellent hardenability for high hardenable steel as well as exceptionally low carbon steels. There are many varied applications where Savsol Q001 offers improved performance at much lower costs.

Savsol Q001 offers following unique performance benefits:

- Accelerated Quenching in Initial Stage/Vapour Phase for Deeper and Uniform Hardening
- Slow Cooling in the Final Stage/Convection Phase to Reduce Distortion
- Constant Cooling Rate for Constant Steel Component Properties
- Minimum Acid & Sludge Formation and Minimum Viscosity Increase Leading to Long Bath Life and Reduced Oil Consumption
- Low Viscosity Vis A Vis Conventional Quenching Oils ensures Reduced Carry Over
- Marked Thermal and Oxidation Stability Offers High Level of Cleanliness and Bright Finish.

SAVSOL QUENCH 27

High performance Cold Quenching Oil formulated with very highly refined base stocks that offer high flash and excellent oxidation stability with low change in viscosity. It offers

- Usage at Elevated Temperatures up to 120°C Under Protective Atmosphere
- Low Distortion and Uniform Hardness Levels
- Excellent Oil Stability Enabling Higher Loading of Components

SAVSOL QUENCH SL

Cold Quenching Oil formulated with narrow cut paraffinic base stock and special additives. It offers

- Superior Cooling and Heat Resistant Properties
- Ensures Longer Oil Life
- Especially suited for Quenching of Springs, Bearing Races etc

SAVSOL QUENCH BI

Cold Quenching Oil formulated with base stocks offering minimum variation in viscosity at different temperatures. It offers

- Low Distortion,
- Specially suited for Quenching of Coil Springs, Springs etc
- Long service life

SAVSOL QUENCH 32

Savsol Quench 32 is a Conventional Quenching Oil with special Anti-Oxidant Additives.

It is suitable for High Hardenability Steels used for Bearings, Springs etc. It is recommended for general purpose Quenching applications

SAVSOL BRIGHT QUENCH 32

Quenching Oil specially formulated with brightening additives to offer bright finish, reduced sludge formation and excellent oxidation stability. It recommended for Press Quenching & Vacuum Quenching. It offer

- Long Bath Life
- Assures Bright Finish over a Long Service Life.
- Ideally suitable for Quenching of Fuel Injection Pump Parts, Sheet Metal Parts etc.

SAVSOL QUENCH VQ

Cold Quenching Oil specially developed for vacuum quenching operations. It is formulated with Hydro treated base stocks to ensure very low evaporation loss and contains select Anti-Oxidant, Wetting Agents and Anti-Foam additives for superior performance. It offers

- Marked Oxidation and Thermal Stability
- Low Sludge Formation
- Bright Finish
- Long Bath Life

SAVSOL QUENCH MP 8

Specially formulated low viscosity semi hot Mar-Tempering Oil Blended from select Hydro Treated Base Stocks and Modern Anti-Oxidant, Wetting Agents and Anti-Foam additives.

It is recommended for uniform Hardening of Components which are prone to Distortion and is suitable for all Components like Transmission Gears parts, Shafts, Bearing and other Auto Components, It offers

- Marked Oxidation Stability
- Outstanding Thermal Stability
- Low Sludge Formation
- Suitable for Mar-Quenching of Automotive Components up to 120°C under Controlled Conditions.

SAVSOL QUENCH HT 12

Semi Hot /Warm quenching oil specially developed for Mar quenching of automotive components.

It is recommended for temperature range between 80°C to 140°C to produce better uniformity within hardened parts with minimum distortion. It offers

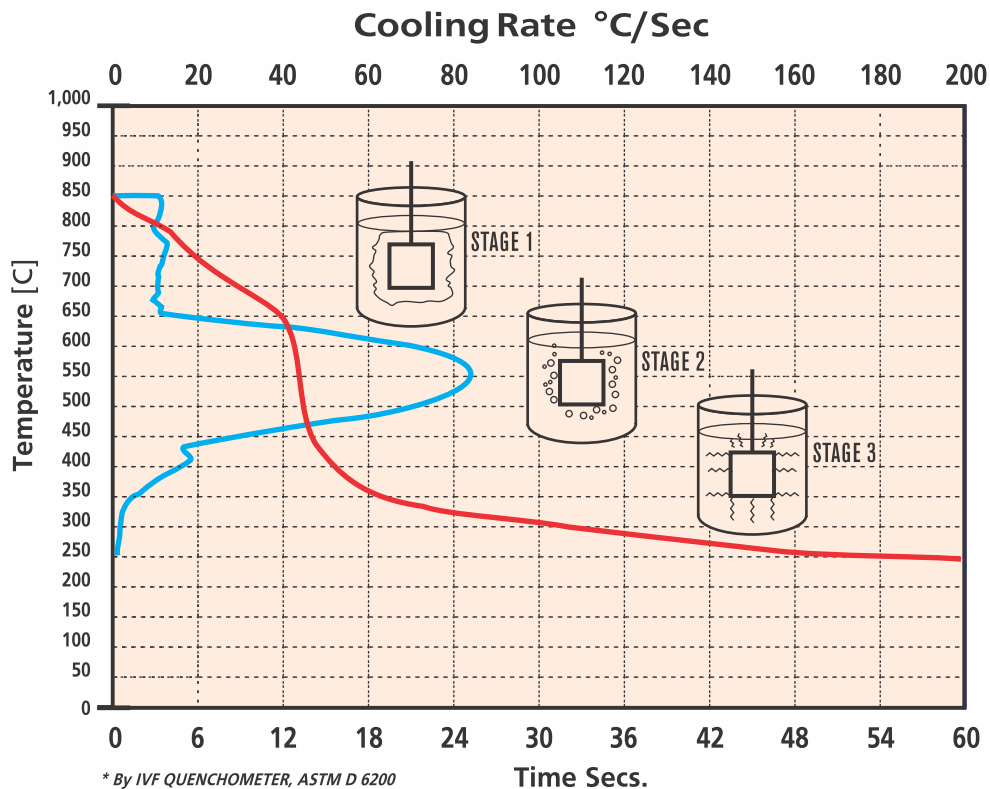
- Exceptional Bright Finish
- Reduced Internal Stresses
- Marked Oxidation and Thermal Stability
- Low Sludge Formation
- Excellent Cooling Property
- Longer Bath Life

SAVSOL QUENCH HT 18

Hot Quenching Oil specially developed for Mar Quenching, Mar Tempering of Auto Components.

It is formulated with narrow cut Hydro Treated Base stocks and contains select Anti-Oxidant, Wetting Agents and Anti-Foam Additives for superior performance. It is recommended for temperatures between 100°C to 160°C. It offers

- Outstanding Thermal Stability and Oxidation Control
- Low Sludge Formation
- Excellent Cooling
- Good Finish with Low Distortion
- Longer Bath Life



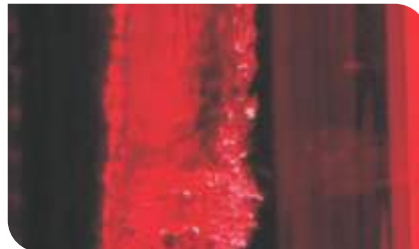
STAGE 1



VAPOUR PHASE

- Formation of vapour film around component
- Slow cooling
- Heat transfer by radiation and conduction through vapour blanket

STAGE 2



BOILING PHASE

- Breakage of Vapour Film
- Violent Boiling at Metal Interface
- High Heat Extraction

STAGE 3



CONVENTION PHASE

- Metal Cools below the Boiling Point of Quenchant
- Heat Removal by Convection
- Heat Removal Slow

WAYS TO STOP DETERIORATION & EXTEND OIL LIFE

- Avoid Contamination with Water
- Control Contamination of Foreign matter viz Salts, Hydraulic Oils, Sludge, Carbon, etc
- Do not Agitate with Compressed Air
- Avoid Mixing with Air
- Control Heater Temperature
- Agitate Oil with Heater On
- Maintain Quench Oil Level in Tank

EXTENDED LIFE

- Highly Refined Oils with Excellent Oxidation Resistance & Stability
- Combination of Additives Offers Retardation in Ageing

HIGH PERFORMANCE

- High Initial Quenching Speed
- Slow Quenching throughout Lower Temperature Range

**FULL RANGE OF
QUENCHING LUBRICANTS**

- Wide range of High Performance Quenching Oils
- Cold Quenching (Accelerated)
- Multi-Purpose
- Warm / Semi-hot
- Mar Quenching
- Custom-made

SAVSOL
QUENCHING
OILS

**BRIGHTNESS AFTER
QUENCHING**

- Minimum Acid and Sludge Formation
- Excellent Oxidation Resistance

SAFETY

- High Flash Point
- Low Toxicity
- Non-Corrosive

**COMMITMENT TO
CUSTOMER SERVICE**

- Professional Support Services
- Root Cause Problem Solving and Trouble Shooting
- Regular Sampling Programme to Determine Oil Performance and Life

SAVSOL RANGE OF LUBRICANTS

- Automotive Engine Oils, Gear Oils, Greases & Coolants
- Hydraulic Oils: HVI, HLP and Anti-wear type
- Industrial Gear Oils & Transmission Fluids
- Turbine Oils
- Quenching Oils
- Thermic Fluids
- Refrigeration Compressor Oils: Mineral & Synthetic
- Spindle Oils, Rolling Oils
- EP Greases & Chain Greases
- Transformer Oils, White Oils, Petroleum Jellies

INDUSTRIAL GREASES RANGE



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SAVSOL GREASE XHD-2 & SAVSOL GREASE XHD-0

Description:

SAVSOL GREASE XHD-2 & SAVSOL GREASE XHD-0 is multipurpose premium quality lithium grease specially designed with high quality mineral oil and advance performance additives for industrial applications where extreme pressure and water washout property required.

Recommendation:

SAVSOL GREASE XHD-2 & SAVSOL GREASE XHD-0 is Suitable for a wide range of industrial uses such as plain and anti-friction bearings in steel mills, paper mills, press machine and generator, pumps, conveyors, compressors, machine tools, gears and various types of couplings.

Available Grades:

- NLGI # 2
- NLGI # 0

SAVSOL GREASE XHD-00

Description:

SAVSOL GREASE XHD-00 is high performance Lithium based grease formulated with highly refined petroleum oil and fortified with performance additives to give additional Extreme Pressure (EP) properties.

Recommendation:

SAVSOL GREASE XHD-00 is recommended for variety of applications encountering heavy load or sock loads in plain/antifriction bearing, gears. Also recommended for heavy duty plain & roller bearings under humid conditions. It is also used in steel plants, cement plants and other industrial applications.

Available Grades:

- NLGI # 00

INDUSTRIAL TRANSMISSION OIL RANGE



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SAVSOL ULTRA KES 3 Series

Description:

SAVSOL ULTRA KES 3 Series oils are high performance Power Train Oil designed for automatic, power-shift and manual transmissions for heavy duty applications such as construction equipments, generators, tractors, trucks etc. fortified with Anti-Wear, Anti-Rust, Anti-Oxidant additives to provide excellent protection against wear, rust & corrosion and oxidation.

Application:

SAVSOL ULTRA KES 3 Series grades can be used in heavy duty construction equipments, generators and tractors. Also suitable for use in hydraulic systems, final drive cases and swing machinery where SAE 10 or SAE 30 grade oil is specified.

Specifications:

SAVSOL ULTRA KES 3 Series Oils meet the following performance.

Specification Requirements:

- API CF
- Komatsu Engineering Standard (KES) requirements – KHT Pass

Viscosity Grades:
SAE 10 & SAE 30

SAVSOL TRANSMISSION C4 FLUIDS

Description:

SAVSOL TRANSMISSION C4 FLUIDS are formulated to meet the specification requirements of Hydraulic Transmission Fluid Type C4 of Detroit Diesel Allison, Division of GM, USA. This extreme pressure oil incorporated with friction modifying agents for encased gears and all machinery fitted with friction disc.

Application:

SAVSOL TRANSMISSION C4 FLUIDS are recommended for use in all power shift Transmissions, Industrial Torque convertors and Automatic transmissions. It also can be used in power shift gear boxes for which manufacturer recommends a fluid satisfying the Allison C4 Specification.

Specifications:

SAVSOL TRANSMISSION C4 FLUIDS meets the performance specification requirements of Allison C4

Viscosity Grades:
SAE 10W & SAE 30

MWO/ROLLING OIL RANGE



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SAVSOL CUT HL-35 (EDM Oil)

Description:

SAVSOL CUT HL-35 is specially developed thin water white fluid with high flash point. It is ideally suited for the use in electrical discharge machines as long life working fluid. It has the right viscosity, excellent oxidation resistance, low evaporation loss. It is non-toxic and odourless in nature. In addition to high dielectric strength, it offers uniform insulation and permits controlled electrical discharge at the Break Down Voltage.

Recommendation:

SAVSOL CUT HL-35 is used as a high performance Dielectric Fluid for Electrical Discharge Machine (EDM).

SAVSOL FLUID 7WW (Rolling Oil)

Description:

SAVSOL FLUID 7WW is a high performance metal working fluid blended from highly refined base oil for rolling of copper alloys, brass and other ferrous metals. It contains anti-oxidants, metal deactivators and defoaming additives to offer superlative performance.

Recommendation:

SAVSOL FLUID 7WW used in the rolling operation for machining copper alloys, brass and non-ferrous metals.

SAVSOL FLUID 12WW (Mould Release Oil)

Description:

SAVSOL FLUID 12WW is a mould releasing oil blending with highly refined base oil with premium additives to offer excellent oxidation stability and de-foaming properties.

Recommendation:

SAVSOL FLUID 12WW is used as mould releasing agent during the manufacture of glass products.

OUR STRENGTH

Our strength lies in our impressive infrastructure spread across the country. To tread towards success, we strive to expand and get established throughout India & overseas. We are the only carbon-positive petroleum speciality company in all of the Asia.



70+ Countries
Worldwide Exports



40+
C&Fs



400+
Distributors



3500+
OEM Franchise Workshops



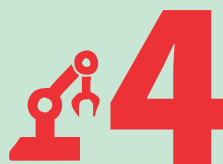
30000+
Retailers



Extensive
network of distributors
& dealers Pan India



Motivated & Trained
Sales Force



State of art blending &
Manufacturing facilities





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