

QUENCHING OILS



www.savsol.com



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.





OUR QUENCHING OIL RANGE

SAVSOL Q 001

Fully Formulated High Performance accelerated cold quenching Oil is 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
- Consistent and Controlled 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
- Optimum operating temperature range as 50°C to 85°C

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, Fasteners, Automotive Parts etc
- Typical Operating Temperature Range is 50°C to 100°C.

SAVSOL QUENCH BI

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

It offers

- Low Distortion
- Long service life
- Specially suited for Quenching of Coil Springs, Springs etc
- Oil Operating Temperature Range is 40°C to 80°C

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 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 Warm/Semi Hot 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

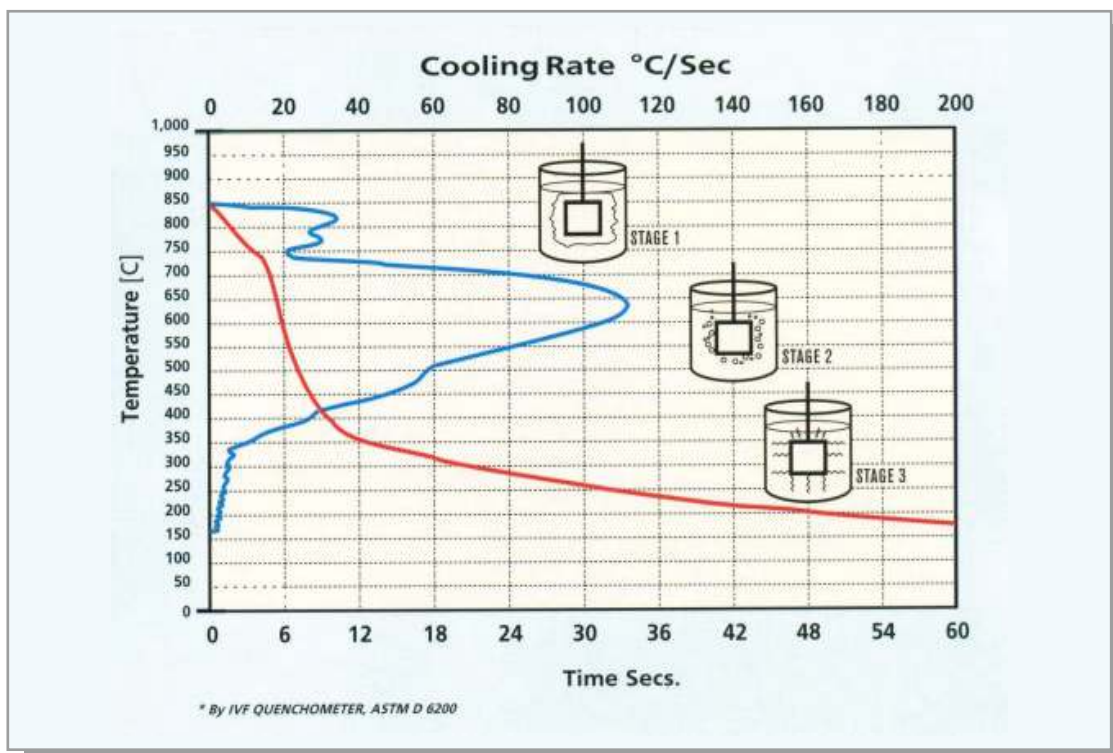
SAVSOL QUENCH HT 18

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

IVF QUENCHOMETER COOLING CURVE ANALYSIS



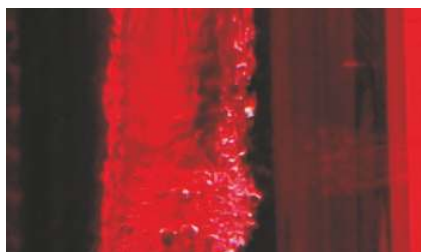
STAGE 1



VAPOUR PHASE

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

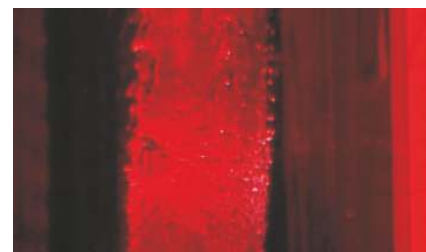
STAGE 2



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
- Control of Catalyst effect due to metals
- Control Heater Temperature
- Agitate Oil with Heater On
- Maintain Quench Oil Level in Tank

BEST IN CLASS PRODUCT RANGE

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

OUR PROFILE

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The latest offering of Quenching Oils is another pioneering effort from the Petroleum Specialities major that promises better performance and superior results. 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.

OUR SELECT CUSTOMERS



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