



**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 is recommended for Press Quenching & Vacuum Quenching. It offers**

- 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**

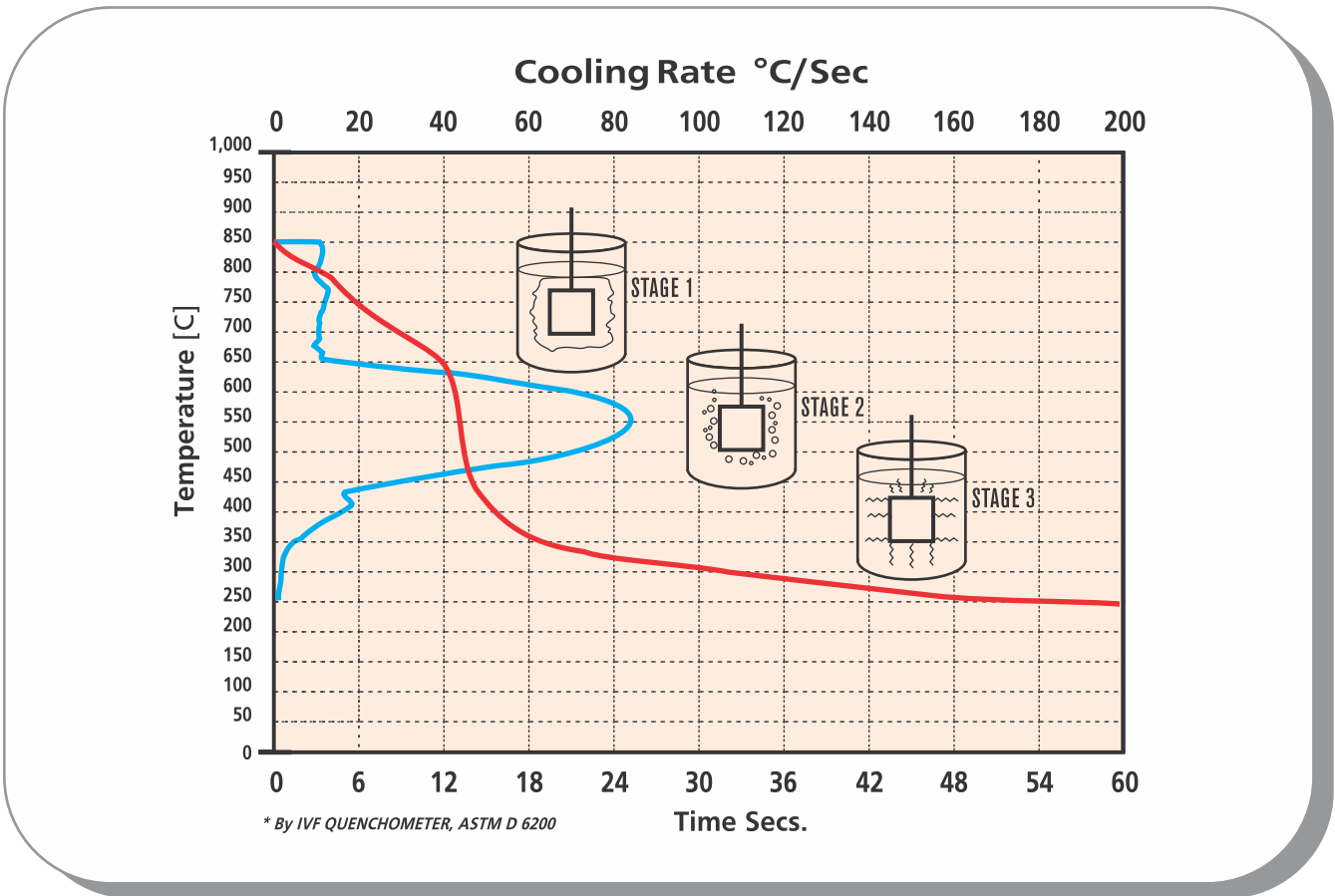
- Exceptional Bright Finish
- Reduced Internal Stresses
- Marked Oxidation and Thermal Stability
- Low Sludge Formation
- Excellent Cooling Property
- Longer Bath Life

## 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



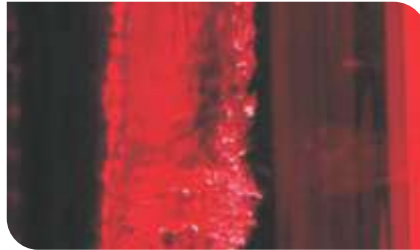
## STAGE 1



### 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



**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

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.

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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