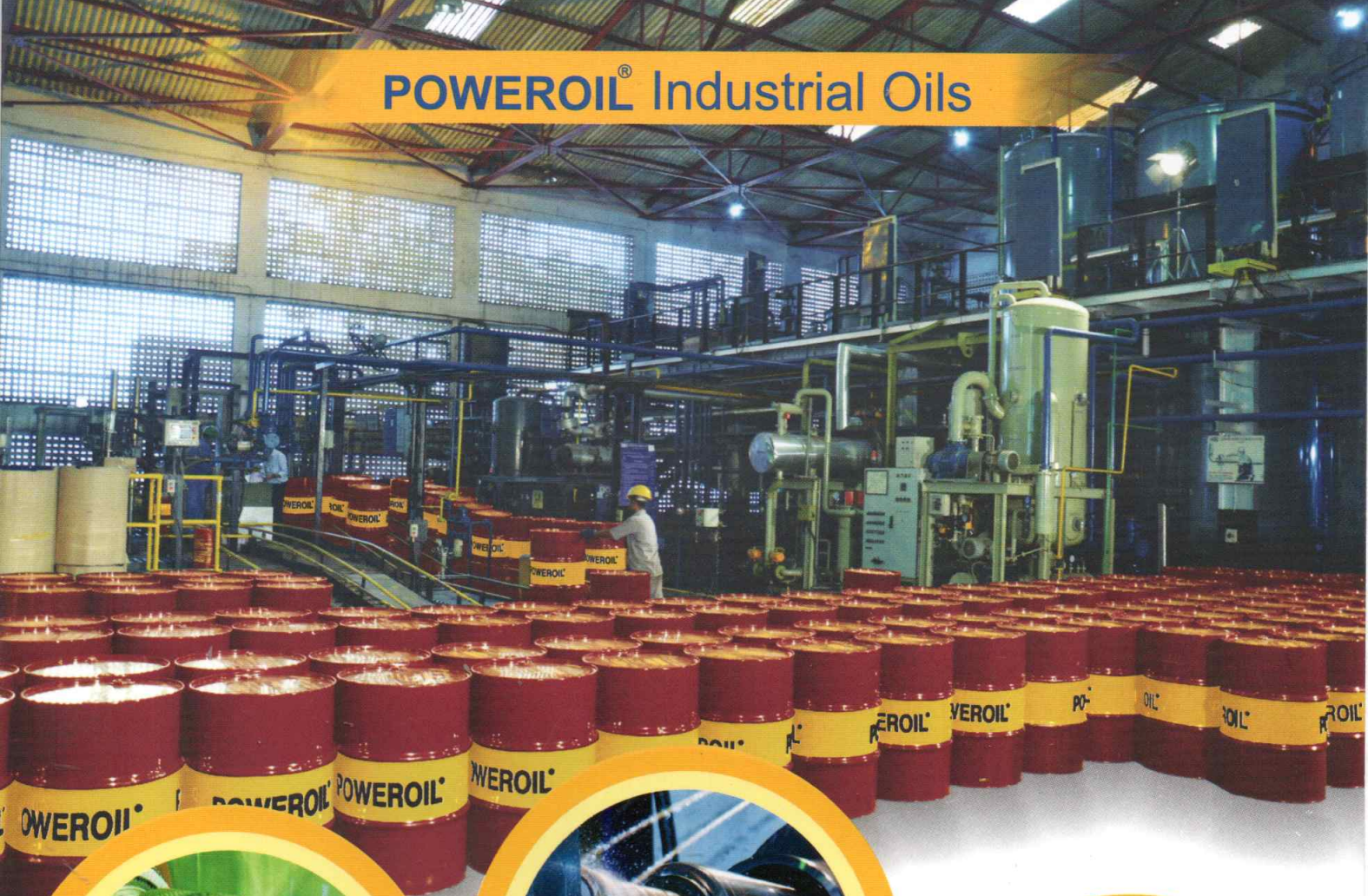


# POWEROIL® Industrial Oils



# APAR

Tomorrow's solutions today



# ABOUT US :

Apar Industries Limited, founded by Late **Mr. Dharmsinh D. Desai** in the year 1958 is one among the best established companies in India operating in the diverse fields of electrical engineering. Over the ensuing years it has evolved to be a 850 million US Dollar diversified company offering additional value added products and services in Speciality Oil, Power Transmission Conductors and cables.

A technology driven and customer focused supplier to some of the most brand enhancing power companies in India and abroad, Apar has strengthened the business of its customers through proactive product development, timely product delivery and superior product attributes by reinforcing product innovation, cost leadership and premium quality and living its vision 'Tomorrow's Progress Today' resulting in Reliability, Respect, Reputation and Repeat business.

Apar manufactures a wide range of Industrial and Automotive at its state-of-art blending plants at Rabale-Thane and Silvassa (D.N.H) under SCADA controlled operations accredited with ISO 9001-2008, ISO 14001-2004, ISO 18000, TS16949 quality systems providing high accuracy blending. It's Quality Control Laboratory is also accredited with NABL and is approved by CISR.

The comprehensive range comprising more than 150 Grades includes Hydraulic Oils, Gear oils, Compressor Oils, Long Life Turbine Oils, Cylinder Oils, Refrigeration Oils, Metal Working Fluids, Wire Drawing Compounds, Automotive Engine Oils, Gear Oils, Transmission Fluids, Glass Mould Oils, Quenching Oils, Thermic Fluids, Industrial and Automotive Greases, etc. and other speciality industrial oils for specific applications meeting the latest BIS and International Standard specifications. These Lubricants are manufactured utilizing advanced technology Hydro-treated and Hydro-cracked base oils, which give distinct advantage than others.

The well-equipped sophisticated laboratory at our Rabale plant includes special testing equipment like Trace Metal Analyzer, FTIR, UV Analyzer, Particulate Counter, Cold Cranking Simulator, salt spray testing, Foaming & Emulsion Test Apparatus, Air Release Value and 4 Ball Weld Load Testing equipment etc., to offer effective pre and post sales services to our customers. On-line vacuum and micro filters are also part of our production systems, which ensure clean and super clean oils meeting the stringent NAS 1638 classification advantage in performance over the similar products made utilizing conventional base oils.



## HYDRAULIC OILS :

**General Purpose Machinery Oils :** POWER MACHINOL oils are general-purpose machinery oils manufactured from solvent refined base stocks with selected anti-rust and anti-oxidant additive package. Available in grades of 32, 46, 68, 100, 150, 220, 320 and 460.

**Antiwear Hydraulic Oils :** POWER HYDROL oils are formulated from highly refined base stocks that are designed for systems where high level of anti wear protection is required. Available in ISO VG grades of 32, 46, 68, 100 and 150.

**Superior Antiwear HLP grades Hydraulic Oils :** POWER HYDROL HLP oils are high performance premium grade hydraulic oils formulated from Hydro-cracked Group II base oils with high performance additive package for excellent lubrication and anti-wear properties. Power Hydrol HLP also possess superior water demulsification and filter ability characteristics. Available in ISO VG grades of 32, 46, 68 and 100.

**High Performance Antiwear HVLP grades Hydraulic Oils :** POWER ULTIMO 32, 46 & 68 are latest generation antiwear hydraulic oils, which have been formulated with Hydro-cracked Base stocks fortified with special antiwear additives along with special anti rust & anti oxidants. The product offers excellent shear stability which ensures the proper maintenance of viscosity during continuous use under severe load and temperature conditions.



**Fire Resistance Hydraulic Fluid : (HFD-U type) POWER SAFEFLUID SE 46 & 68** are based on high quality synthetic organic esters and selected additives. POWER SAFEFLUID SE replace anti wear mineral oil fluids when fire hazards exist and in environmental sensitive applications.

**Fire-resistant Hydraulic Fluid (HFC type) POWER SAFEFLUID SG 46** is an HFC type Water Glycol Fire resistant Hydraulic oils is designed to provide excellent protection against rust and superior anti wear properties. The Product Power Safe Fluid SG-46 is biodegradable and free from Nitrite.





## GEAR OILS :

**Antiwear Gear and Circulating Oils :** Power Hydgear series oils are formulated from highly refined base stocks with selected premium additive package of anti-oxidant, anti-wear, anti-rust and anti-foam additives. They are recommended for gear boxes made from non-ferrous metals. Available in ISO VG grades of 220, 320 and 460.

**Premium Enclosed Gear Box Oils :** Power Gear SP oils are extreme pressure industrial gear oils formulated from high quality mineral oils with carefully chosen sulphur phosphorous type additive package, which imparts excellent anti-wear and extreme pressure characteristics. They have excellent thermal and oxidation stability, good demulsibility and de-foaming properties. Available in ISO VG grades of 100, 150, 220, 320, 460 and 680.



## COMPRESSOR OILS :

**Refrigeration Compressor Oils :** Power Cool Oils are premium quality Refrigeration Compressor lubricants blended from highly refined naphthenic base oils having excellent oxidation stability & low pour points. Available in grades of 10, 15, 22, 32, 46, 68 and 100.

**Premium Compressor Oils :** Power Press Oils are specially developed air compressor oils are blended from premium quality solvent refine base stocks with carefully chosen superior performance additive package to deliver best in class performance. Available in ISO VG grades of 46, 68, 100, 150 and 220.

**Compounded Compressor Oils :** Power Press Series Oils are also available in compounded type which is recommended for wet gas application. Available in ISO VG grades of C-100, C-150 and C-220.



## GREASES :

**Multipurpose Greases :** **POWER GEM MP2 & MP3** are lithium soap multipurpose greases suitable for all stringent performance applications.

**Extreme Pressure Type :** **POWER GEM EPo EPoo Ep1 & EP2 POWER CBP** are premium quality lithium base greases having extreme pressure (EP) properties. These greases prevent welding and seizure of moving parts often caused by shock loading and water washout.

**High Temperature Greases :** **POWER HI-TEMP Greases** are non-soap base smooth structure greases with excellent ability to withstand high temperature and severe shock load condition.



## ENGINE OILS :

**Power Engine 40 & 20W40 :** Recommended for use in naturally aspirated diesel engines/petrol engines operating under moderate duty conditions. These provide long service life, maintain high order of engine cleanliness & control corrosion and wear. These conform to API SC/CF, E-DL I / E-PL I Of BIS-I 3656-1993, US MILITARY MIL-L-2104 B.

**Power Pride 20W40 :** Recommended for turbo charged engine these conform to API CD PLUS, MACK T7, E-DL 3 of BIS I 3656-1993 and US MILITARY MIL-L-2104 C.

**Power Engine CF4 15W40 :** These conform to API CF4 / SE CMC D4, DAIMLER BENZ 228.1, AILISON C-4.

**Power Engine Super Champ Oils :** conform to API Ch4 / Cg4 / Cf4 / Cf2 / CF / SL, MAN 271, STANDARDS ACEA E 7-04, Volvo VDS-2, ACEA B4-04/A4-04, MACK EO-M Plus, Cummins CES -20,076 / 20077, MB 228.3 Blanket / MB 229.1, MTU Type 2, Caterpillar ECF -1a.

**Power Engine Super Maxima :** These conform to API CI4/CH4/CG4/CF4/CF2/CF/SL, MAN M3275, ACEA E7-08, Volvo VDS-3, ACEA B4-04/A4-04, MACK EO-M PLUS, Cummins CES -20076/77/78, JASODHI, MB 228.3 MB 229.1, MTU Type 2, CAT ECF -1a, CAT ECF-2, Renault RLD-2.

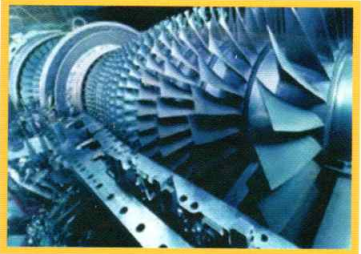




## HEAT TRANSFER OILS :

**Premium Heat Transfer Oils : POWERTHERM 500 and 600** are premium quality heat transfer fluids formulated from best in class solvent refined base stocks. Powertherm 600 can be used with a maximum boiling temperature of 310 C.

**POWERTHERM SYN 600** is a Synthetic Heat transfer fluid used in moderate temperature applications (- 25 °C to 300 °C) . Powertherm Syn 600 is formulated with selected synthetic base Fluid fortified with a exclusive and carefully selected Anti oxidants and anti sludge additive package to ensure higher performance throughout their long service life.



## TURBINE OILS :

**Premium Turbine Bearing Lubricants : Power Turbo Oils** are blended from premium hydro-treated base stocks with selected anti-oxidant, rust inhibitor and anti-foam additive package. Available in grades of 32, 46 and 68. The product is approved by siemens and confirm to BHEL specification.



## METAL WORKING OILS :

**Active Type : Premium Metal Working Oils POWERCUT NS-1000** Premium Series oils are blended from selected HVI oils with high performance additive package comprising of sulphur, fat and performance chemicals. These products are recommended for metal removal applications like Gun Drilling, Broaching, Gear Hobbing and Gear Shaving etc. These products are not recommended for metal working operations on non-ferrous and cuprous metals. Available in grades of NS-1012, NS1018, NS-1024, NS-1032 and NS-1037.

**Non Active Type : POWER HONE-7** is a low viscosity, chlorine-free, neat honing oil containing exclusive ester based lubricity and performance additives, to provide excellent surface finish to hardened steels and nickel alloys.

**Powercut NF series** oils are high performance multipurpose neat cutting oils. They are Chlorine free non-staining type neat cutting oils blended from high VI base oils and contains special additives & fatty material to provide effective machining performance in a wide variety of operations of both ferrous & non-ferrous metals. Available in grades of NF-7, NF-9, NF-20 and NF-BR.

**Powercut NS series** are high performance multipurpose neat cutting oils formulated from high quality refined mineral oils with unique performance package to ensure cost effective machining operations. These non-staining and noncorrosive products are designed for light & moderate duty metal working operations. Available in grades of NS-12, NS-15, NS-20, NS-34 and NS-37.

**Power cut NF-9 (BR)** is a medium Viscosity light coloured high performance Neat cutting oil. This product is specially blended from Premium quality solvent refined mineral oils with selective additives suitable for Flute grinding/ profile grinding operations.

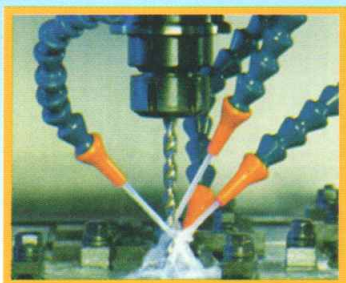


**Powercut A12 Premium** is a non-staining type neat cutting oil blended from high VI base oils fortified with chlorinated EP additive and is free flowing, giving better heat dissipation characteristics. This oil is suitable for machining of aluminium components.

**Powercut Ultra GH :** Powercut Ultra GH is specially developed product using Hydro cracked base stock & Ester based additive technologies. Which offer very low odour and light colour to the product. The additives form very stable film at high temperature even up to 1000 Deg C and forms very low friction film to ensure anti chip welding properties with minimum build up edge. The product is specially designed for heavy cutting operations like Gear Hobbing of Carbon Steel & Alloy steels.

**Powercut Ultra GG :** Powercut Ultra GG is specially developed product using Hydro cracked base stock & Ester based additive technology free of zinc and chlorine. The careful selections of the additives offer very low odour and light colour to the product.





## WATER SOLUBLE OILS :

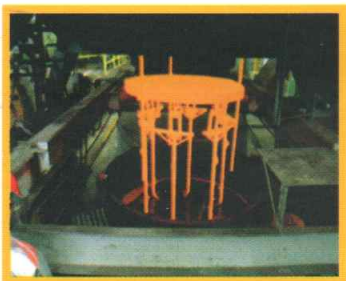
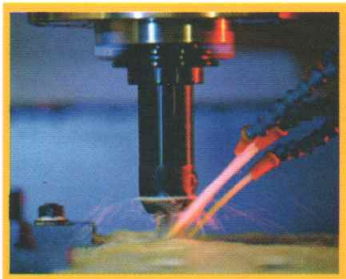
**Metal Cutting Oil : POWER METCUT S PLUS** is high quality conventional milky emulsion type general purpose soluble cutting oil manufactured from specially selected base stocks with superior performance additive pack containing carefully chosen emulsifier which offers very stable emulsion even in hard water. The product is recommended for light moderate duty application like turning, drilling, facing, milling & grinding.

**Semi Synthetic Grinding & Cutting Fluid : POWER Synthcut-25S** is a semi synthetic, environment-friendly cutting fluid that has been developed for use as a general purpose grinding and light to heavy duty machining fluid for ferrous & its alloy metals. It contains special lubricity & E.P additives and rust inhibitor, which protect Ferrous components of machine tools. The product is recommended for cast iron and mild steel application only.

**Power Synthcut 25 HP** is a BIOSTABLE semi-synthetic high pressure metalworking coolant containing approximately 15% mineral oil. Power Synthcut 25 HP has exceptional foam control, hard water stability and tramp oil rejection while providing outstanding lubricity for machining and grinding. It is recommended for moderate duty cost iron machining application.

**Power Synthcut EP - 40 HD** is a heavy duty BIOSTABLE semi-synthetic high pressure metalworking coolant. Power Synthcut EP-40 HD combines the superior chemical flexibility of synthetics with mineral oil and a chlorinated extreme-pressure additive.

Power Synthcut EP - 40 HD has exceptional foam control, hard water stability and tramp oil rejection. It provides outstanding extreme-pressure lubricity for machining and grinding virtually all metals, particularly Aluminum, Stainless Steels and other hard to machine alloys. Power Synthcut EP- 40 HD is not recommended for use on Magnesium.



## HEAT TREATMENT / TEMPERING / QUENCHING OILS :

**Cold Quenching Oil : POWER QUENCH 32 M** is recommended for general purpose metal quenching operations, developed from specially selected high viscosity index base stocks having excellent thermal and oxidation stability, low volatility and good fluidity.

**Medium Fast Quenching Oils : POWER QUENCH 11 and POWER QUENCH SL 11** oils are specially designed accelerated cold quenching oils. Power Quench 11 is blended from solvent refined mineral oils with carefully chosen high quality fatty material to provide good wetting characteristics for delivering accelerated quenching rates. The accelerated quenching rates in Power Quench SL 11 are achieved through blending of high quality paraffinic base stocks with premium performance additive package.

**Fast Quenching Oils : POWER SUPER QUENCH 20** is a low viscosity accelerated quenching oils is blended from selected Low sulphur base stocks having excellent oxidation and thermal stability & Low volatility. The high quenching rate of the oil is imparted by using a special additive pack in the product.

**Hot Quenching Oil : POWER QUENCH MQ -120 & MQ-150** are medium fast Mar quenching oil, blended with a high quality hydro-cracked base stock having excellent thermal & oxidation Stability. POWER QUENCH MQ -120 operates at a bath temperature upto 120°C and Mq150 operates at a bath temperature upto 150°C.

**POWER QUENCH MT 30** is a high quality straight mineral oil for Tempering / Blackening operations, developed from specially selected high viscosity index base stocks having excellent thermal and oxidation stability, low volatility and good fluidity.



## FORMING OIL :

**Wire Drawing Oils : Aluminium Wire Drawing Oil POWER MET-15** is a conventional superior performance Aluminium wire drawing fluid manufactured from selected highly refined, high viscosity index base oils fortified with special additives to improve the wetting characteristics.

**POWER MET-SDL-20** is superior performance Aluminum wire drawing fluid manufactured from a premium highly refined, high viscosity index base oils fortified with unique synthetic additives to improve the wetting characteristics and offers excellent

surface finish The product offers higher film strength and better oxidation stability at high temperature when Alloy wires are drawn at high speed.



**POWER MET ROLL AL PLUS & POWER METROLL AL HEAVY** is high quality conventional milky emulsion type special purpose soluble Cutting oil manufactured from specially selected base stocks with superior performance additive pack containing carefully chosen emulsifier, which offers very stable emulsion at higher temperature. This product is specially developed for Aluminum hot rod rolling application.

**Nut & Bolt Forming Oil : POWERCUT NS 46** Premium is high performance oil exclusively developed for Metal forming application. This oil has been formulated from high quality mineral oils with unique performance package and wetting agents to ensure cost effective machining operations. This is a non-staining and non-corrosive product designed for light & moderate duty metal forming operations like bolts and nut formation as well as thread forming.

**POWER DRFM 60 DF** is high performance oil exclusively developed for Metal forming application. This oil has been formulated from high quality mineral oils with unique performance package and wetting agents to ensure cost effective machining operations. This is a non-staining and non-corrosive product designed for Medium & moderate duty metal forming operations like bolts and nut formation.

**Tube Drawing & Expander oil : POWER DRFM TU 300** is an unique drawing oil developed for Tube drawing and Deep drawing operations of Ferrous Metals Power DRFM TU 300 is blended with premium highly refined high viscosity index base oil fortified with specially selected synthetic additives and emulsifier packages to offer better wetting and water wash out characteristics. It also contains exclusive Synthetic EP Additives to impart excellent load bearing properties. This product is free of Chlorine.

**Stamping /Rolling / Deep Drawing oil : POWER DRFM LIGHT & HEAVY** Oils are environment-friendly de-aromatized hydrocarbon product with water white color, low odor and zero aromatic content. These grades are most suited for Aluminum stamping rolling operation and cold rolling operation. **POWER PRESS 220 SPL** specially developed grade with selected mineral oil and EP additives for light pressing & bar drawing operations.



## RUST PREVENTIVE OILS :

**Non Solvent Types : POWER RP LIGHT** is superior non-solvent type rust preventive oil fortified with additive, which offer a good rust protection. Recommended for in-house protection of automobile components.

**Power RP HR** is an oil based rust preventive oil made with highly refined base oils coupled with performance adherent oils and high performance rust inhibitor additives. Recommended for finished packaging components.

**Solvent Type : Power RP DW-100**, is a temporary rust preventive oil made with thin and good penetrating solvents coupled with highly refined oils and high performance rust inhibitor additives. Recommended for in-process application.

**POWER RP 150DW** is well-formulated solvent & water displacement type thin film rust preventive oil designed to provide protection to steel components against high humidity & extreme corrosive environment. It effectively displaces moisture and protects the surface by arresting rust and corrosion.

**POWER RP CR**, is rust preventive oil made with thin and good penetrating solvents coupled with highly refined film forming oils and high performance rust inhibitor additives. Recommended for cold rolled sheets.



## WAY LUBE OILS :

**Superior Machine Tool Way Oils** : Power Waylube oils as name suggests are conventional superior performance machine tool way lubricants formulated from highly refined base stocks and fortified with anti-rust, tackiness and mild EP additives. Available in grades of 32, 68, and 220.



# APAR

Tomorrow's solutions today

### Indian Locations :

**Corporate & Sales Office** : Apar House, Building No. 5, Corporate Park, Sion Trombay Road, Chembur, Mumbai - 400 071.  
Tel : +91 22 25263400 / 67800400 • Fax : +91 22 25246326 • Url : [www.apar.com](http://www.apar.com)

**Manufacturing Units : Lube Blending Plant** : 18 T.T.C. Indl. Area, Rabale, Thane - Belapur Road, Navi Mumbai - 400701.  
Tel : +91 22 61110444 / 27693893 / 4757 • Fax : +91 22 27602692

**Poweroil Petroleum Products** : Survey No.148 / 1, Kudacha Village, Silvassa - 396 230. (D.N.H)  
Tel : +91 260 2630282 / 194 • Fax : +91 260 2630960

### International Locations :

Durban - South Africa • Sydney - Australia • Gebze - Turkey