



# Valvoline Catalogue



# PRODUCT INFORMATION



A Product of Valvoline Cummins Pvt. Ltd.

## Valvoline AGMA EP Gear Oil 150 / 220 / 320 / 460

### PRODUCT DESCRIPTION

Valvoline AGMA EP Gear Oils are lead-free extreme pressure type industrial gear lubricants. The oils are blended from high quality base stocks & contain special sulphur-phosphorus compounds to impart antiwear and extreme pressure properties.

### PERFORMANCE STANDARDS

**AISE 224**  
**DIN 51517 Part 3**  
**ISO 12925-1 Type CKD**  
**AGMA 9005-E02 (EP)**  
**David Brown S1.53.101 E**

### CHARACTERISTICS / APPLICATIONS

- Extreme pressure gear oil formulated for use in industrial gear drives operating under high load, shock load and other severe service conditions.
- Excellent high temperature stability.
- Good water separation characteristics makes these gear oils an excellent choice for use in gear lubrication systems where high water ingress is encountered.
- Provides high temperature oil film thickness, rust and corrosion control, shear stability, viscosity control and lubricity.
- Also recommended for lubrication of oil lubricated flexible couplings, heavily loaded bearings and chains.

### PERFORMANCE BENEFITS

- High load carrying ability.
- Excellent prevention against rust & corrosion.
- Reduced tendency to foam.
- Resistance to deposit & germ formation.
- Non-corrosive to ferrous & non-ferrous metals at elevated temperatures.

### TYPICAL CHARACTERISTICS

#### **ISO VG**

Kinematic Viscosity, cSt @ 40°C

Viscosity Index

Flash Point, COC

Pour Point, °C

FZG Test, Pass Stages

Rust Test D665, A&B, 24 hrs.

### VALVOLINE AGMA EP GEAR OILS

150	220	320	460
150	220	320	460
95	95	97	96
232	238	240	246
-21	-18	-12	-12
12	12	12	12
Pass	Pass	Pass	Pass

**Available Packs:** Consult your Valvoline Representative.

1/2020



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# PRODUCT INFORMATION



A Product of Valvoline Cummins Pvt. Ltd.

## Valvoline Anti-Wear Hydraulic Oils VG 32, 46, 68, 100

### PRODUCT DESCRIPTION

Valvoline Anti-Wear Hydraulic Oils are high viscosity index, chemically stable, good quality mineral base oils which have been further fortified with anti-oxidant, anti-corrosion, anti-wear and anti-foam additives. They comply with the requirements of high pressure systems and applications where high pump speeds are experienced.

### APPLICATIONS

Valvoline Anti-Wear Hydraulic Oils are recommended as fluid media for hydraulic systems operating under moderate to severe operating conditions in stationary & mobile equipments where high pressure gear & vane pumps are used. These oils are also recommended for circulation, splash, ring oiling system of the bearings (both plain & antifriction), gears of industrial machinery, metal working equipments, servo controls and air compressor applications.

### PERFORMANCE STANDARDS

**DIN 51524 Part I**

### PERFORMANCE BENEFITS

- Outstanding anti-wear characteristics.
- High chemical stability to ensure long & trouble-free service life.
- Excellent foam resistance.
- Good protection against rust & corrosion.
- Right viscosity to satisfy the requirement of hydraulic pumps & designed systems

### TYPICAL CHARACTERISTICS

#### **ISO VG**

Kinematic Viscosity, cSt @ 40°C

Viscosity Index, min

Flash Point, COC, °C

Pour Point, °C

Rust Test D665, A&B, 24 hrs.

Emulsion Test, D-1401, 40-40-0, minutes

### VALVOLINE ANTI-WEAR HYDRAULIC OILS

<b>32</b>	<b>46</b>	<b>68</b>	<b>100</b>
32	46	68	100
95	95	95	95
220	220	228	238
-24	-21	-18	-12
Pass	Pass	Pass	Pass
15	15	25	25

**Available Pack:** Consult your Valvoline Representative

6/2020



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# PRODUCT INFORMATION



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## Valvoline BB EPL2 Grease

### Product Description

Valvoline BB EPL2 Grease is a premium quality lithium base Grease suitable for lubrication over wide temperature range of 20°C to 120°C characterized by its high dropping point, excellent oxidation stability and very good EP characteristics. In addition Valvoline BB EPL2 Grease has good adhesion characteristics, high resistance to corrosion excellent chemical stability and good pumpability.

### Performance Benefits

- ✓ Excellent water resistance
- ✓ Very good EP characteristics
- ✓ Good mechanical stability
- ✓ Low consumption as it stays longer
- ✓ Excellent Lubrication in both High and Low temperature conditions.

### APPLICATIONS

Its good pumpability characteristics make it suitable for use in centralized lubrication systems of large industrial units. It is also recommended for wide range of industrial applications where high temperatures are encountered. It is ideal for steel plant applications such as continuous casters, coupling, oscillators, run out rolls, blowers etc. It is also suitable for mining industries for applications such as rock crushers, conveyor drilling machinery as well as rotary kiln in sponge iron industry. Also, ideal for applications where equipment comes in contact with water.

### PERFORMANCE STANDARDS

**Meets IS 7623, Lithium Base EP 2**  
**Meets IPSS:1-09-005 Steel Plants**

### TYPICAL CHARACTERISTICS

<b>NLGI Grade</b>	<b>2</b>
Type of Soap	Lithium
Texture	Smooth & Buttery
Color	Dark Brown
Worked Penetration (60 Strokes) @ 25°C	280
Drop-Point, °C, min.	180
Rust Tests, D-1743	Pass
Four ball wear scar dia, mm, max.	0.6
Four ball weld load, Kg., min.	200
Timken OK Load, Kg., min.	20

**Available Packs:** Consult Your Valvoline Representative.

8/2017



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# PRODUCT INFORMATION



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## Valvoline Fleet Plus Engine Oil

### PRODUCT DESCRIPTION

**Valvoline Fleet Plus Engine Oil** has been specially formulated to provide optimum performance and protection in modern low emission Euro III & IV (Bharat Stage III & IV) compliant diesel engines operating under a wide variety of service conditions.

The product is manufactured from specially selected semi-synthetic base oils and state-of-the-art additive technology to comply with the stringent performance standards.

The product provides superior detergency, dispersancy characteristics, TBN retention and viscosity control. The advanced product technology offers a long life and extended drain capability.

### APPLICATIONS

Valvoline Fleet Plus Engine Oil is recommended for use in medium size & heavy duty BSIII and BSIV diesel engines for Off highway (mining & construction) and On highway applications

### PERFORMANCE PROFILES

- API CI-4 Plus
- CES 20078

### ADVANTAGES

- Excellent soot dispersancy & oil-thickening control.
- Reduced oil filter restriction at high soot levels.
- High temperature piston deposit control and ring/liner wear protection.
- Higher TBN level for long-life performance.
- Superior TBN Retention.

<u>TYPICAL CHARACTERISTICS</u>	<u>ASTM Method</u>	<u>SAE 15W-40</u>
Kinematic Viscosity, cSt @ 40°C	D 445	108
Kinematic Viscosity, cSt @ 100°C	D 445	14.8
Viscosity Index	D 2270	141
Flash Point, COC, °C,	D 92	236
Pour Point, °C	D 97	-36
TBN, mg KOH/g	D 2896	13.3
CCS Viscosity @ -20°C, cP	D 5293	5900

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# PRODUCT INFORMATION



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## Valvoline Gear Gard 80W90 LS

### PRODUCT DESCRIPTION

Gear Gard 80W90 LS is a high performance gear lubricant specially developed for Limited Slip Differential applications to withstand high loads and repeated shock-load conditions.

Gear Gard 80W90 LS is formulated using the high quality base oils with an extreme pressure additive system, corrosion inhibitor and friction modifier technology to enhance wear protection, corrosion resistance, and smooth operation in limited slip differentials. It is also fortified with highly shear stable material to maintain viscosity in extreme load conditions.

### GEAR GARD 80W90 LS ADVANTAGES

- Protection against thermal degradation during high operating temperature
- Improved low temperature characteristics
- Excellent wear and corrosion protection
- Reduces clutch chatter noise and elevates smoother operation in limited slip differentials
- Superior seal compatibility to eliminate the chances of leakage

Valvoline Gear Gard 80W-90 LS is approved by ZF for their limited slip differentials.

### PERFORMANCE STANDARDS

API GL-5  
MIL-L-2105D  
MB-Approval 235.0  
MAN 342 M-1  
Volvo 97310  
DAF  
ZF TE-ML 05C, 12C, 16E, 21C

### APPLICATIONS

Valvoline Gear Gard 80W-90 LS is recommended in heavy duty On-highway and off-highway equipment with non-synchronized transmissions, limited slip differentials, axles and final drives where API GL-5 quality oils are specified. Limited slip differentials of modern passenger cars, sports utility vehicles, vans and light duty trucks. Not suitable for automatic transmissions.

### TYPICAL CHARACTERISTICS

Appearance	Clear & Bright
Kinematic Viscosity, @ 100°C cSt	14.6
Viscosity Index	100
Flash Point, COC, °C, Min.	220
Pour Point, °C, max	-21

**Available Packs:** Consult Your Valvoline Representative.

3/2018



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# PRODUCT INFORMATION



A Product of Valvoline Cummins Pvt. Ltd.

## Valvoline HLP 32 / 46 / 68 SC

### PRODUCT DESCRIPTION

Valvoline HLP 32 / 46 / 68 SC are specially formulated for use in hydraulic systems employing high performance pumps. They are specially filtered to minimize particle contamination to meet NAS 6\* cleanliness levels of NAS 1638, which ensures trouble free function of servo valves.

These products possess excellent oxidation, demulsibility characteristics & high FZG rating. The products are further fortified with rust & foam inhibitors.

### CHARACTERISTICS / APPLICATIONS

- Valvoline HLP oils have good filterability.
- Excellent film strength & anti-wear, properties to minimize wear in pumps, rings, valves, pistons, cylinders etc.
- High demulsibility.
- Anti-foam properties ensure efficient functioning.
- High Viscosity index to ensure excellent viscosity characteristics under operating conditions.

Valvoline HLP 32 / 46 / 68 SC are recommended for use in hydraulic systems, high performance electro-hydraulic or numerically controlled systems, pumps & circulation oiling systems & enclosed gear boxes.

### PERFORMANCE STANDARDS

Dennison HF-0, HF-1, HF-2  
Eaton Brochure 03-401-2010  
DIN 51524 Part II  
MAG IAS P-68, P-69, P-70  
Bosch Rexroth RDE90240 Basic Level Approval  
US Steel 126, 127, 136  
ISO 11158 HM  
David Brown

Confirms to NAS 6 cleanliness levels of NAS 1638

\* NAS Level measured at filling nozzle

### TYPICAL CHARACTERISTICS

#### ISO VG

Kinematic Viscosity, cSt @ 40°C

Viscosity Index

Flash Point, COC, °C

Pour Point, °C

FZG Test, Pass Stages

Rust Test D665, A&B, 24 hrs.

Emulsion Test, D-1401, 40-40-0, minutes

### VALVOLINE HLP OILS

	32	46	68
Kinematic Viscosity, cSt @ 40°C	32	46	68
Viscosity Index	105	105	103
Flash Point, COC, °C	214	218	232
Pour Point, °C	-24	-24	-24
FZG Test, Pass Stages	10	10	12
Rust Test D665, A&B, 24 hrs.	Pass	Pass	Pass
Emulsion Test, D-1401, 40-40-0, minutes	10	10	15

**Available Pack:** Consult your Valvoline Representative

03/2018



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## Valvoline HLP 32 / 46 / 68

### PRODUCT DESCRIPTION

Valvoline HLP 32 / 46 / 68 are specially formulated for use in hydraulic systems employing high performance pumps. They possess excellent oxidation, demulsibility characteristics & high FZG rating. The products are further fortified with rust & foam inhibitors.

### CHARACTERISTICS / APPLICATIONS

- Valvoline HLP oils have good filterability
- Excellent film strength & anti-wear, properties to minimize wear in pumps, rings, valves, pistons, cylinders etc.
- High demulsibility.
- Anti-foam properties ensure efficient functioning.
- High Viscosity index to ensure excellent viscosity characteristics under varied operating conditions.

Valvoline HLP 32 / 46 / 68 are recommended for use in hydraulic systems, high performance electro-hydraulic or numerically controlled systems, pumps & circulation oiling systems & enclosed gear boxes.

### PERFORMANCE STANDARDS

Dennison HF-0, HF-1, HF-2  
Eaton Brochure 03-401-2010  
DIN 51524 Part II  
MAG IAS P-68, P-69, P-70  
Bosch Rexroth RDE90240 Basic Level Approval  
US Steel 126, 127, 136  
ISO 11158 HM  
David Brown

### TYPICAL CHARACTERISTICS

#### ISO VG

Kinematic Viscosity, cSt @ 40°C

Viscosity Index

Flash Point, COC, °C

Pour Point, °C

FZG Test, Pass Stages

Rust Test D665, A&B, 24 hrs.

Emulsion Test, D-1401, 40-40-0, minutes

### VALVOLINE HLP OILS

32	46	68
32	46	68
105	105	103
214	218	232
-24	-24	-24
10	10	12
Pass	Pass	Pass
10	10	15

**Available Pack:** Consult your Valvoline Representative

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# PRODUCT INFORMATION



A Product of Valvoline Cummins Pvt. Ltd.

## Valvoline Lithium EP2 Grease

### PRODUCT DESCRIPTION

Valvoline Lithium EP 2 Grease is premium quality lithium soap grease containing an extreme pressure additive, formulated to provide outstanding mechanical stability & EP characteristics under severe operating conditions. It is multi-purpose grease developed for use in a variety of operating conditions.

Valvoline Lithium EP 2 Grease provides excellent lubrication in both high and low temperature conditions. The product combines oxidation, anti-wear and corrosion inhibitors with high quality base stocks. It performs well under heavy load and high speed conditions.

### APPLICATIONS

Valvoline Lithium EP 2 Grease is recommended for lubrication of both plain & anti-friction bearings in a wide variety of applications such as automotive, earth-moving equipment, gear coupling, mining equipment & other industrial applications.

### PERFORMANCE STANDARDS

**IS 7623: 1993, Reaffirmed 2001 (EP Type)**

### TYPICAL CHARACTERISTICS

<b>NLGI Grade</b>	<b>2</b>
Type of Soap	Lithium
Texture	Buttery
Worked Penetration (60 Strokes) @ 25°C	278
Drop-Point, °C, min.	180
Rust Tests, D-1743	Pass
Four ball wear scar dia, mm., max.	0.6
Four ball weld load, Kg., min.	200
Timken OK Load, Kg., min.	20

**Available Packs:** Consult Your Valvoline Representative.

8/2017



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# PRODUCT INFORMATION



A Product of Valvoline Cummins Pvt. Ltd.

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## Valvoline Lithium MP Grease

### PRODUCT DESCRIPTION

**Valvoline Lithium MP Grease** is lithium soap grease formulated to provide outstanding mechanical stability. It is multi-purpose grease developed for use in a variety of operating conditions.

**Valvoline Lithium MP Grease** provides excellent lubrication in both high and low temperature conditions. The product combines oxidation and corrosion inhibitors with high quality base stocks. It performs well under heavy load and high speed conditions. It maintains excellent pumpability at low temperatures with a drop point of 185°C.

### APPLICATION

**Valvoline Lithium MP Grease** is recommended for automotive, industrial, mining & agriculture applications.

### PERFORMANCE STANDARDS

**IS 12203: 1999, Reaffirmed 2004**

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### TYPICAL CHARACTERISTICS

NLGI Grade	3
Type of Soap	Lithium
Texture	Buttery
Colour	Pale Yellow
Worked Penetration (60 Strokes) @ 25°C	235
Drop Point, °C, min.	185
Wear Scar Dia mm, max	0.6

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# PRODUCT INFORMATION



A Product of Valvoline Cummins Pvt. Ltd.

## Valvoline Power Select 15W-40

### PRODUCT DESCRIPTION

Valvoline Power Select 15W-40 Engine Oil is a blend of highly refined premium base oil with high viscosity index combined with a special additive package comprising of antioxidant, detergent, dispersant and anti-wear agent which optimizes performance of modern and heavy duty diesel engines operating under extreme load and environmental conditions.

### **The Power Select Advantage**

The advanced product technology offers a longer engine life, good soot and deposit control which provides overall wear protection. The balanced formulation helps to maximize engine durability by maintaining viscosity during high temperature operations and resists pressure changes during extended service periods.

### PERFORMANCE PROFILE

- API CH-4/SJ
- ACEA E7-04
- MB 228.3
- Volvo VDS 2
- Caterpillar ECF-2
- MAN 3275
- MTU Type 2
- CES 20076

### APPLICATIONS

Valvoline Power Select Max 15W-40 Engine Oil is recommended for use in Off-highway applications in construction and mining, marine, locomotive, fleet and long haul on-highway applications where API CH4 is a recommended grade.

### TYPICAL CHARACTERISTICS

Kinematic Viscosity, cSt @ 40°C	114.9
Kinematic Viscosity, cSt @ 100°C	15.2
Viscosity Index	135
Flash Point, COC, °C, Min.	226
TBN, mg KOH/g (ASTM D – 2896)	10.5
Pour Point, °C, max.	-33
CCS Viscosity @ -20°C, cP	6710

**Available Packs:** Consult your Valvoline Representative.

04/2017



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# PRODUCT INFORMATION



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## Valvoline Power Select Max Plus 15W-40

### PRODUCT DESCRIPTION

Valvoline Power Select Max Plus 15W-40 Engine Oil is a blend of highly refined premium base oil to provide advanced lubricant performance in modern, low-emission diesel engines (Incl. EGR). Unique boosters with premium Group II base oil accounts for excellent cold start protection minimizing valve train/pistons/ring liner wear and class leading soot protection levels.

### **The Power Select Plus Advantage**

The advanced product technology and state of the art additive chemistry strongly resists soot induced oil thickening and keeps the oil flow perfect for lubricating over longer periods. The formulation offers extended drain intervals, reduced oil filter restrictions, excellent thermo-oxidative stability and provides for outstanding performance even in extreme load conditions maximizing engine life.

### PERFORMANCE PROFILE

- API CI-4 Plus/SL
- ACEA E7-08
- MB 228.3
- CES 20078
- MAK EO-M Plus
- Caterpillar ECF-2
- MAN 3275
- MTU Type 2
- Renault RLD-2
- Volvo VDS 3

### APPLICATIONS

Valvoline Power Select Max Plus 15W-40 Engine Oil is recommended for use in all naturally aspirated, Turbocharged (Incl EGR) medium size and heavy duty diesel engines commissioned for Off-highway applications in construction and mining, marine, locomotive, fleet and long haul on-highway applications where API CI4+ is the recommended grade.

### TYPICAL CHARACTERISTICS

Kinematic Viscosity, cSt @ 40°C	112.3
Kinematic Viscosity, cSt @ 100°C	15.00
Viscosity Index	135
Flash Point, COC, °C	226
TBN, mg KOH/g	11.4
Pour Point, °C, max.	-30
CCS Viscosity @ -20°C, cP	6550

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04/2017



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# PRODUCT INFORMATION



A Product of Valvoline Cummins Pvt. Ltd.

## Valvoline Quench Q42

### PRODUCT DESCRIPTION

**Valvoline Quench Q42** is blended from specially selected lube oil base stocks with inherent oxidation and thermal stability having high viscosity index, fluidity and low volatility.

**Valvoline Quench 42** is straight mineral type oil possessing normal quenching characteristics.

### APPLICATIONS

Valvoline Quench Q42 is recommended for all normal quenching operations on variety of steels to impart desired hardness to components without distortions.

It is advisable that oil-bath temperature is maintained at optimal level for best quenching performance and long service life. The recommended oil-bath temperature of 50°C –65°C will meet most of quenching requirements

Valvoline Quench Q42 is suitable for hardening of nuts, bolts, bearings and other components manufactured by automotive and light engineering industries.

### PERFORMANCE STANDARDS

IS: 2664 – 1980 (Reaffirmed 1993),  
Straight mineral type, grade medium.

### PERFORMANCE BENEFITS

- Good quenching characteristics
- Imparts uniform hardness without distortion.
- Wide application range.

### TYPICAL CHARACTERISTICS

Specific Gravity @ 29.5°C	0.894
Appearance	Clear & Bright
Kinematic Viscosity @ 40°C, cSt	30
Kinematic Viscosity @ 100°C, cSt	5.2
Viscosity Index	105
Flash Point, COC, °C	210
Pour Point, °C, max	-3

**Available Packs:** Consult your Valvoline Representative

7/2017



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# PRODUCT INFORMATION

A PRODUCT OF VALVOLINE CUMMINS PVT. LTD.



## Valvoline Crimson Grease

### Product Description

Valvoline Crimson Grease is a Premium quality long life high quality lithium soap, extreme pressure (EP), NLGI 3 grease especially suited for use in light duty & heavy duty mobile applications.

The superiority of Valvoline Crimson Grease over conventional greases can be exhibited by its good mechanical stability, excellent roll stability, good water washout resistance, high load carrying ability, good adhesion property and resistance to oil separation under pressure. All these factors will contribute to enhanced service life of the grease.

### Applications

Valvoline Crimson Grease provides trouble free, cost effective long-life lubrication in light & heavy-duty applications for on-road as well as off-road applications. Suitable for the lubrication of heavily loaded plain and rolling element bearings.

PRODUCT FEATURES	OPERATION ADVANTAGES	BENEFITS
Good Mechanical Stability	Excellent lubrication at peak temperatures & heavy loads	Lower bearing failures.
High structure stability	Reduced grease thinning under vibrating conditions	Long Service Life
Effective Lubrication in wet condition	Minimal washout of grease in wet conditions	Extended bearing life
Excellent lubrication under heavy loads and low speed	Lower bearing temperatures and bearing failure due to low coefficient of friction	Higher bearing life and lower power consumption.

### Typical Characteristics

NLGI Grade	3
Type of Soap	Lithium
Structure	Smooth, Buttery & Homogenous
Color	Crimson Red
Worked Penetration (60 Strokes) @ 25°C	220-250
Drop Point, °C min	190

Available Packs: Consult Your Valvoline Representative.

07/2019



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Registered Office: Unit No. 315, Third Floor, World Trade Centre, Barakhamba Road,  
Connaught Place, New Delhi - 110001



# PRODUCT INFORMATION



A Product of Valvoline Cummins Pvt. Ltd.

## Valvoline HD High Temp 230 Grease

### PRODUCT DESCRIPTION

**Valvoline HD High Temp 230 Grease** is made from highly refined base oils of high viscosity index. This grease has high water resistance, high load carrying ability, high drop point and excellent mechanical, thermal, shear & oxidation stability. It possesses extended component life due to low wear & tear.

**Valvoline HD High Temp 230 Grease** is very much suitable for use in centralized grease stations of steel plants and heavy engineering industries and rolling mills. Wide variety of application such as in automotive, mining equipment's, Electric motors, Gear couplings, earth moving equipment's and general machinery.

### BENEFITS

- High Load carrying capacity.
- Good Pumpability.
- Extended Re-Lubrication Period.

### APPLICATION

- For High Load and Low Speed Applications in Steel Plants.
- Sponge Iron Plants.
- Kilns and Coolers.

### TYPICAL CHARACTERISTICS

	Test	Test Results	Test Methods
1	Appearance	Smooth & homogenous	Visual
2	Consistency, Penetration at 25+/-0.5 Deg C		ASTM D 217
	a> Unworked	270	
	b> Worked 60 strokes	272	
3	Color	Yellow	Visual
4	Drop Point ,Deg C	230	ASTM D 566
5	Free Alkalinity as LiOH,% By Mass	0.024	IP 37/85
6	Heat Stability at 100 deg C for 30 Hours, % loss by mass	2.5	IS 1448 P 89
7	Leakage and Deposits foaming tendency ( wheel bearing test ), leakage by mass, g	1.25	ASTM D 1263
8	Resistance to water wash out at 80 deg C, % loss by mass	2.5	ASTM D 1264
9	Copper Strip Corrosion at 100 deg C for 24 hours	Negative	ASTM D 4048
10	Type of Soap	Lithium	

**Available Packs:** Consult Your Valvoline Representative.

10/2017



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# PRODUCT INFORMATION

A Product of Valvoline Cummins Pvt. Ltd.



## Valvoline Koolant – All Weather RTU

### Product description

Valvoline Koolant – All Weather RTU is developed from the latest OAT patented technology with global proven performance. The patented\* carboxylate formulation has a service life of up to three years or 250,000 kms /2000 Hours and incorporates state-of-the-art organic acid technology for protection of all cooling system metals including aluminum.

Valvoline Koolant – All Weather RTU is a balanced formulation developed specially for Indian condition that has both warm as well as moderately cold climate.

Valvoline Koolant - All Weather RTU contains no phosphates, silicates, borates, nitrates, amines and nitrites. Its universal formulation meets the phosphate-free requirements of European manufacturers and the silicate free requirement of Asian manufacturers.

Valvoline Koolant - All Weather RTU protects modern engine components from boiling and provides moderate freeze protection. It contains a high quality defoamer and will not harm gaskets, hoses, plastics or original vehicle paint.

### Applications

Recommended for use in radiators of all On-Highway (commercial vehicles, tractors, passenger cars, MUVs and SUVs) and Off-Highway applications (Construction, Mining and Powergen).

### Performance Specifications

**Meets all the Corrosion test requirements as per JIS K-2234 Class 2.**

### Performance Benefits

- Long Life Coolant
- Ideal for both warm and moderately cold climatic conditions
- Protects against corrosion of cooling system metals.
- Prevents against hot weather boil-overs as well as moderate freeze protection.
- Compatible with multi-metals and non-metallic components like gaskets, hoses etc.

### Directions for Use

- Drain and flush cooling system with water.
- Check system for leakages, if any.
- Top up periodically with Valvoline Koolant - All weather up to maximum mark on the expansion bottle.

\* US patents 6,235,217 and 6, 126,852



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# PRODUCT INFORMATION



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## Typical Properties

Color	Green
Sp. Gravity @ 20° C	1.029
pH	9.8
Boiling Point*, °C	123
Freeze Point, °C	-9

\*Boiling Point shown using conventional 15 psi radiator cap

Typical ASTM Corrosion Test Results			
Test	Weight Loss, Mg/Specimen		ASTM Method
	Maximum Limit	Actual	
<b>Glassware Corrosion</b>			D1384
Copper	10	1	
Solder	30	0	
Brass	10	2	
Steel	10	0	
Cast Iron	10	0	
Aluminum	30	2	
<b>Simulated Service</b>			D2570
Copper	20	2	
Solder	60	20	
Brass	20	2	
Steel	20	0	
Cast Iron	20	-3 <sup>#</sup>	
Aluminum	60	7	
<b>Hot Surface Corrosion</b>			D4340
mg/cm <sup>2</sup> /wk			
Specimen weight loss	1	0.04	

# - weight loss denotes a gain

**Available Packs:** Consult Your Valvoline Representative

11/2018



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# PRODUCT INFORMATION



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## Valvoline Koolant Classic

### Product description

Valvoline Koolant Classic incorporates state-of-the-art organic acid long life patented\* Carboxylic Acid Technology for protection of all cooling system metals including aluminum. It is formulated with carefully selected rust & corrosion inhibitor and demineralized water; to protect the metal parts against corrosion and prevents foaming and scale formation. The product has a service life of up to 1 year or 100,000 kilometers / 1000 Hours.

Valvoline Koolant Classic is water based and intended for use in warm climates where freeze protection is not needed. It is compatible with hard water and can tolerate hardness even up to 700 ppm.

Valvoline Koolant Classic contains no phosphates, silicates, borates, nitrates, amines and nitrites. Its universal formulation meets the phosphate-free requirements of European manufacturers and the silicate free requirement of Asian manufacturers.

Valvoline Koolant Classic protects modern engine components from summer boiling. It is storage stable for up to one year. It contains a high quality defoamer and will not harm gaskets, hoses, plastics or original vehicle paint.

### Applications

Recommended for use in radiators of all On-Highway (Commercial vehicles, tractors, passenger cars, MUVs and SUVs) and Off-Highway applications (Construction, Mining and Powergen).

### Performance Specifications

Meets all the Corrosion test requirements as per JIS K-2234 Class 2.

### Performance Benefits

- Protection against corrosion to cooling system metals.
- Prevents hot weather boil-overs.
- Does not harm non-metallic components like gaskets, hoses etc.
- Environmental friendly.

### Recommended Dosage

- Recommended dilution ratio 1:4 (coolant: water)

### Directions for Use

- Drain and flush cooling system with water.
- Check system for leakages, if any.
- Top up periodically with Valvoline Koolant Classic up to maximum mark on the expansion bottle.

\* US patents 6,235,217 and 6, 126,852



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# PRODUCT INFORMATION



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## Typical Properties (when diluted in 50:50 ratio with water)

Color	Green
Sp. Gravity @ 20° C	1.03
pH	9.8
Reserve Alkalinity	10.5
Boiling Point, °C	100

Typical ASTM Corrosion Test Results				
		Weight Loss, Mg/Specimen		
Test	Maximum Limit		Actual	ASTM Method
Glassware Corrosion				D1384
Copper	10		1	
Solder	30		0	
Brass	10		2	
Steel	10		0	
Cast Iron	10		0	
Aluminum	30		2	
Simulated Service				D2570
Copper	20		2	
Solder	60		20	
Brass	20		2	
Steel	20		0	
Cast Iron	20		-3 <sup>#</sup>	
Aluminium	60		7	
Hot Surface Corrosion		mg/cm <sup>2</sup> /wk		D4340
Specimen weight loss		1	0.04	

# - weight loss denotes a gain

**Available Packs:** Consult Your Valvoline Representative.

8/2017



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# PRODUCT INFORMATION



A Product of Valvoline Cummins Pvt. Ltd.

## Valvoline RPO 02 DW

### PRODUCT DESCRIPTION

**Valvoline RPO 02 DW** is a soft film, solvent deposited, de-watering type, temporary rust preventive compound. This rust preventive oil can be applied directly to moist metal surfaces, where it displaces water and forms a strong protective film. This oil can be applied at room temperature by dip / spraying / brushing method. **Valvoline RPO 02 DW** offers good rust prevention / protective film for all types of machine shop jobs.

### APPLICATIONS

**RPO DW 02 Oil** forms a soft sticky, oily film over metal surfaces, when applied by spraying / dipping / brushing and is recommended for protection of components with high degree of finish, in machine shops, e.g. tools, fasteners, strips, etc.

### PERFORMANCE STANDARDS

IS: 1154 –2000

### PERFORMANCE BENEFITS

- Easy application by dipping, spraying and brushing
- Easy removal by conventional cleaning methods using kerosene / solvents or by other degreasing methods.
- Offers excellent protection against salt / sea water and humid environments.

### TYPICAL CHARACTERISTICS

Appearance	Amber, Clear Fluid
Specific Gravity @ 29.5°C, g/cc	0.7930
Flash Point, COC, °C, Min.	60
Film Thickness, micron*	2.4
Water Displacement Test	Pass
Film Type	Soft
Protection (Months)**	
- Indoor	9
- Outdoor	2

**Available Packs:** Consult Your Valvoline Representative.

\*Figures are indicative only. Values depend on method of application and shape of components.

\*\*Figures are indicative only. Protection depends on atmospheric conditions under storage.

2/2021



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# PRODUCT INFORMATION



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## Valvoline RPO 02 DW TF

### PRODUCT DESCRIPTION

**Valvoline RPO 02 DW TF** is a soft film, solvent deposited, de-watering type, temporary rust preventive compound. This rust preventive oil can be applied directly to moist metal surfaces, where it displaces water and forms a strong protective film. This oil can be applied at room temperature by dip / spraying / brushing method. **Valvoline RPO 02 DW TF Oil** offers good rust prevention / protective film for all types of machine shop jobs.

### APPLICATIONS

**RPO DW 02 TF OIL** forms a soft sticky, oily film over metal surfaces, when applied by spraying / dipping / brushing and is recommended for protection of components with high degree of finish, in machine shops, e.g. tools, fasteners, strips, etc.

### PERFORMANCE STANDARDS

IS: 1154 –2000

### PERFORMANCE BENEFITS

- Easy application by dipping, spraying and brushing
- Easy removal by conventional cleaning methods using kerosene / solvents or by other degreasing methods.
- Offers excellent protection against salt / sea water and humid environments.

### TYPICAL CHARACTERISTICS

Appearance	Clear Fluid
Specific Gravity @ 29.5°C, g/cc	0.7895
Flash Point, COC, °C	60
Film Thickness, micron*	2.64
Water Displacement Test	Pass
Film Type	Soft
Protection (Months)**	
- Indoor	12
- Outdoor	4

**Available Packs:** Consult Your Valvoline Representative.

\*Figures are indicative only. Values depend on method of application and shape of components.

\*\*Figures are indicative only. Protection depends on atmospheric conditions under storage.

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# PRODUCT INFORMATION



A Product of Valvoline Cummins Pvt. Ltd.

## Valvoline Soluble Cutting Oil

### PRODUCT DESCRIPTION

Valvoline Soluble Cutting Oil is blended from selective mineral base oils, emulsifier and high performance additives to provide a stable well dispersed milky emulsion with water. It is designed to perform well and foam stable emulsion in hard water. The emulsion formed is homogenous and does not split during usage on routine machine shut-downs, under normal conditions.

Valvoline Soluble Cutting Oil imparts anti-rust and anti-corrosion properties to the emulsion. The suitable biocide incorporated prevents bacterial growth in the emulsion.

***Always add oil to water not vice-versa***

### APPLICATIONS

Valvoline Soluble Cutting Oil is recommended for variety of cutting operations on ferrous and non-ferrous metals. It gives extended tool life and finish in all cutting operations where cooling is more important than lubrication.

Recommended dilution ranges are :-

1: 20	Milling, drilling, turning & sawing
1:10 to 1:20	Sawing, tapping & reaming.
1:40	Centreless Surface grinding.

### TYPICAL CHARACTERISTICS

Appearance	Clear & Bright
pH	9.3 Typical
Cast Iron Corrosion	Passes
Emulsion Test @800 ppm Hard Water	Passes
Frothing Test	Passes
Thermal Stability Test	Passes
K. Viscosity @40°C	45 Typical
Density @29.5°C	0.8727

**Available Packs:** Consult Your Valvoline Representative.

### PERFORMANCE PROFILES

- IS 1115: 1986

### PERFORMANCE BENEFITS

- Prolonged tool life, excellent surface finish, superior cooling and lubricating properties.
- Provides long-lasting stable emulsions.
- Protection of work piece, machine components & tool material from rust & corrosion.

5/2017



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# PRODUCT INFORMATION



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## Valvoline Thermo Medium

### PRODUCT DESCRIPTION

Valvoline Thermo Medium is mineral based heat transfer oil used in industrial applications. It possesses good thermal & oxidation stability, low volatility & low vapour pressure to give long service life in a well-designed heat transfer system.

It provides easy startup of the heat transfer system & maintains pumpable viscosity even at low ambient temperatures.

### APPLICATIONS

Valvoline Thermo Medium is recommended in various types of heat transfer systems for indirect heating in industrial applications. It provides rapid heating because of its high specific heat and thermal conductivity at operating temperatures.

Valvoline Thermo Medium is suitable for use in both, closed as well as open heat transfer systems. It is recommended for use in systems where the bulk oil temperature does not exceed 300°C.

### PERFORMANCE BENEFITS

- Long service life due to high resistance to oxidation & thermal cracking.
- High specific heat & thermal conductivity at all temperatures providing quick heating.
- Suitable for use in low as well as high temperature heating systems.
- Low viscosity ensures reduced power consumption.

### TYPICAL CHARACTERISTICS

Specific Gravity @ 29.5 °C	0.8438
Appearance	Clear & Bright
Kinematic Viscosity, @ 40°C, cSt	31.3
Kinematic Viscosity, @ 100°C, cSt	5.6
Flash Point, COC, °C	228
Pour Point, °C	-15
Carbon Residue (Conradson) %m/m	<0.01
Initial Boiling Point, °C	> 335
Coefficient of thermal expansion 1/ °C	0.000768

**Available Packs:** Consult your Valvoline Representative

6/2021



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# PRODUCT INFORMATION



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## Valvoline ThermoSynth

### PRODUCT DESCRIPTION

**Valvoline ThermoSynth** is synthetic base heat transfer fluid which provide excellent thermal and oxidation stability, low volatility and low vapor pressure to ensure longer life

**Valvoline ThermoSynth** has wide operating range of –15 °C to 310 °C. Unlike mineral base products, it does not crack at high temperature forming carbon deposits and insoluble matter. Negligible deposits mean better heat transfer rate. Insoluble matter/sludge is kept in fine dispersion, which increases the overall life of oil.

**Valvoline ThermoSynth** has low freezing point (below – 20 °C), which ensures good pumpability at low temperatures and smooth operations. It's low volatility reduces oil consumption during service. Due to special AFR (anti free radical) and minimum low boilers formation characteristics, Valvoline ThermoSynth has more life than conventional mineral base heat transfer oils.

### APPLICATIONS

**Valvoline ThermoSynth** is recommended for well-designed indirect heat transfer system having high bulk operating temperatures. It gives excellent performance in high temperature heat transfer system. It has wide range of application in textile, pharmaceuticals, plywood, chemical and other processing industries, where there is indirect heating is an enclosed system.

### PERFORMANCE BENEFITS

- High thermal and oxidation stability, less degradation, higher drain period.
- Improved heat transfer rate.
- Excellent overall stability.
- Low volatility results in less oil consumption.
- Non-corrosive, non-toxic.
- Ability to withstand at higher temperature.
- Low temperature pumpability and circulation.
- Overall reliable, cost effective performance even on continuous running.

### TYPICAL CHARACTERISTICS

Appearance	Clear & Bright
Specific Gravity @ 29.5 °C	0.8554
Kinematic Viscosity @ 40°C, cSt	20.4
Pour Point, °C	-42
Flash Point, COC, °C	200
Coefficient of thermal expansion 1/°C	0.000797
Carbon Residue (Conradson) %m/m	<0.01
Initial Boiling Point, °C	>350

**Available Packs:** Consult your Valvoline Representative.

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# PRODUCT INFORMATION



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## Valvoline Soluble Cutting Oil Super

### PRODUCT DESCRIPTION

Valvoline Soluble Cutting Oil Super is a high performance, metalworking fluid for general machining of ferrous as well as non-ferrous alloys. It is applicable to general cutting work such as deep hole drilling, reaming, thread cutting, forming and milling as well as grinding work.

Emulsions prepared with Valvoline Soluble Cutting Oil Super offer excellent corrosion protection, longer sump life.

### PRODUCT BENEFITS

- Increased tool life
- Improves surface finish
- In-process protection of machinery and parts
- Reduce machine downtime
- Excellent corrosion protection

### PERFORMANCE BENEFITS

- Low foaming property
- Excellent corrosion protection
- Good hard water stability upto 700 ppm of  $\text{CaCO}_3$
- Suitable for high & low pressure CNC systems
- Free from nitrites, phenols, active sulfur and phenols

### RECOMMENDED DILUTION:

Valvoline Soluble Cutting Oil Super to be mixed with water for use. Always add concentrate to water. Always clean sump thoroughly before fresh charge.

- General machining - 6 – 8%
- Thread cutting and forming - 6 – 8%
- Deep hole drilling - 6 – 8%
- Reaming, Mapal reaming - 8 – 10%
- Grinding, creep feed grinding – 3 – 5%

### TYPICAL PHYSICAL CHARACTERISTICS

Appearance, neat  
Appearance, 3% in water  
Kinematic Viscosity, cSt @ 40°C  
Frothing Test  
pH @ 5% in DI  
Density @29.5°C  
Emulsion @400 & 800 ppm Hard Water  
Cast Iron Corrosion Test

Amber Clear Liquid  
Milky emulsion  
60 cSt +/- 10 cSt  
Passes  
7.6 – 9.8  
0.8925  
Passes  
Passes

**Available Packs:** Consult your Valvoline Representative.



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# PRODUCT INFORMATION



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# PRODUCT INFORMATION



A Product of Valvoline Cummins Pvt. Ltd.

## Valvoline Supercut 125

### PRODUCT DESCRIPTION

**Valvoline Supercut 125** is a high performance sulphurised extreme pressure neat cutting oil. It is designed with low viscosity oils, active EP and selected lubricity additives. Its' low viscosity enables faster heat removal.

**Valvoline Supercut 125** is a Chlorine free product.

### PERFORMANCE BENEFITS

- **Good cooling** resulting in consistent accuracy and surface finish.
- **High lubricity** and high weld load characteristics.
- **Extended tool life.**
- **Minimum Mist Forming Tendency** – Environment and operator friendly.

### APPLICATIONS

**Valvoline Supercut 125** is mainly recommended for drilling and boring of hard metals and stainless steel. It is suitable for the severe operations like Deep Hole Boring, Deep Hole Drilling, Gun Drilling, Trepanning, etc. of Cast Iron, Carbon Steel, Alloy Steel and Stainless Steel. It is **NOT** to be used on non-ferrous metals.

### TYPICAL CHARACTERISTICS

Appearance	Bright, Yellow Colour Liquid
Specific Gravity @ 29.5 °C	0.8544
Flash Point, COC, °C	150 (90 Typical)
Kinematic Viscosity @ 40°C, cSt	9.5 – 12.5
Copper Strip Corrosion @ 100°C, 3 Hr.	4b
Four ball weld load,kgs.	> 500

**Available Packs:** Consult Your Valvoline Representative.

5/2017



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# PRODUCT INFORMATION



A Product of Valvoline Cummins Pvt. Ltd.

## Valvoline Supercut 195

### PRODUCT DESCRIPTION

**Valvoline Supercut 195** is a high performance sulphurised compounded extreme pressure neat cutting oil.

It is a dark colour product but with low odour, which operator friendly.

It is designed with good quality base oils with adequate viscosity, active EP and selective lubricity additives. These sulphur additives get activated and react chemically with interacting metal surfaces and form protective film. This film is stable at very high temperature and prevents localized welding. It also gives high EP characteristics and excellent surface finish.

### APPLICATIONS

**Valvoline Supercut 195** is mainly recommended for gear cutting, gear hobbing, drilling, reaming and thread milling operation.

It is also suitable for the severe operations like deep hole boring, deep hole drilling, gun drilling, etc. with cast iron, carbon steel, alloy steel and stainless steel.

**Valvoline Supercut 195** is **NOT** to be used on nonferrous metals, copper alloys and aluminium alloys.

**Valvoline Supercut 195** being Chlorine free is an eco-friendly product.

### PERFORMANCE BENEFITS

- Complete visibility of tool and work piece
- Good cooling resulting in consistent accuracy and surface finish
- High lubricity and EP additives for more tool life
- No local chip welding
- Low odour, low fuming and anti-misting
- Easy flow of product – low pour point
- Environmental and operator friendly

### TYPICAL CHARACTERISTICS

Appearance	Slightly Brown Colour Liquid
Specific Gravity @ 29.5 °C	0.867
Flash Point, COC, °C	184
Kinematic Viscosity @ 40°C, cSt	30.5
Copper Strip Corrosion @ 100°C, 1 Hr.	4c
Four Ball Weld Load, Kgs	800

**Available Packs:** Consult Your Valvoline Representative.

7/2017



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