



# **gandharoil**

## **REFINERY (I) LTD**

**(An ISO 9001:2000 Certified)**

### **PRODUCT CONTENTS WITH DESCRIPTION**

DIVYOL COLOMA OILS

DIVYOL CONCRETE MOULD OILS

DIVYOL BROACHING OILS

DIVYOL GUN DRILLING OILS

DIVYOL DE-WATERING RUST PROTECTIVES

DIVYOL OIL BASED RUST PROTECTIVES

DIVYOL CLEANING FLUIDS

Corp Off: 1001, 10<sup>th</sup> Floor, Unique Towers,  
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### **DIVYOL COLOMA OILS**

Divyol Coloma Oils 12/30/45/70 are bright and clear paraffinic oil recommended to be used as Dispersing Agent and process aids for polymers. These oils with colour less than 0.5 allows dispersion of colour and brightening agents like TiO<sub>2</sub> in the polymer matrix. Due to its colourless nature it does not contribute to discolouration of the finished products.

**Applications:**

1. Colour master batches based on various polymers.
2. Filler master batches.
3. Thermoplastic Elastomers.
4. Coloured articles based on polyolefins

Product Characteristics:

Tests	Test Method	Divyol Coloma Oils			
		12	30	45	70
Appearance	Visual	Bright & Clear			
<i>Colour</i>	ASTMD 1500	0.5 max.			
Specific Gravity @ 30 °C	ASTMD 1298	0.820 min	0.820 min.	0.825 min	0.85 – 0.87
Kinematic Viscosity @ 40°C cSt	ASTM D 445	11min.	28 min	40 min.	65 min.
Flash Point °C (COC)	ASTN D92	180min.	210 min.	220 min.	220-250
Pour Point °C	ASTM D97	-12 min.	-12 min.	-9 min.	-3 min.
Aniline Point °C	ASTM D 611	100 °C min.	115 °C max.	120 °C min.	120 °C
Volatile Loss @ 100 °C/3 hrs.	ASTM 972	0.50 max.	0.50 max.	0.50 max.	0.5 max.

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### **DIVYOL CONCRETE MOULD OILS**

Divyol Concrete Mould Oils are manufactured from highly refined mineral oil base stocks. These have been blended with a special additive to give it a body so that the product offers and offer improved surface finish to the moulded articles. After the base oil evaporates and/or is absorbed by the moulds, the special additive provides a load bearing film which does not allow the concrete to come in contact with the mould. Thus the moulded article comes out of the mould without cracks, surface imperfections, etc.

#### **BENEFITS OFFERED:-**

1. Prolong the life of the moulds.
2. It provides excellent surface finish to the moulded articles.
3. It gives higher productivity on account of its superior mould releasing ability.

#### **• TYPICAL INSPECTIONS OF DIVYOL CM OIL :-**

<b>Characteristics</b>	<b>Test Methods</b>	<b>Typical</b>
Appearance	Visual	Water White
Density @15°C	D-1298	0.83
Flash point COC °C	D-92	80
Viscosity cSt @40°C	D-445	11 – 13
Pour Point °C	D-97	- 6

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## **REFINERY (I) LTD**

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### **DIVYOL BROACHING OILS**

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**DIVYOL BROACHING OILS No 1** is a blend of specially selected light bodied base oils and additives which helps it withstand extreme loads encountered in broaching operations. The oil is specially blended to ensure enhanced cooling to obtain smooth polished surfaces.

**DIVYOL BROACHING OILS No 32** has been formulated after extensive trials at customer's plant. Its higher Viscosity & Flash Point enhances its load carrying ability making it suitable for other machining operations as well.

- **Typical Inspections of DIVYOL Broaching Oils:-**

Characteristics	Test Methods	DIVYOL BROACHING OILS	
		No 1	No 32
Appearance	Visual	Semi Transparent	
Density @ 15 °C	D-1298	0.99	1.03
Flash point COC °C	D-92	175	180
Viscosity cSt @40°C	D-445	17.5	31.5
Chlorine	-	Yes	Yes
Sulphur	-	Yes	Yes
Fats	-	Yes	Yes
EP Weld Load KG's	-	800	800

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## **REFINERY (I) LTD**

**(An ISO 9001:2000 Certified)**  
**DIVYOL GUN DRILLING OILS**  
**FOR FERROUS METALS**

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DIVYOL GUN DRILLING OILS are highly potent product having low viscosity characteristic to help chips removal at high pressure. These are recommended for drilling holes for gun barrels and similar operations. High EP characteristic of the oil provides better surface finish.

- **Typical Inspections of DIVYOL Gun Drilling Oils:-**

Characteristics	Test Methods	DIVYOL GUN DRILLING OILS	
		No 1	No 1 A
Color	Visual	Bright & Clear	
Appearance	Visual	Semi Transparent	
Odour	Smell	Acceptable	Acceptable
Density at 15°C	D 1298	0.90	0.919
Viscosity cSt at 40°C	D	11	17.5
Flash Point COC°C	D 92	140	160
Type	-	Sulphurised having free Sulphur	
Chlorine	-	Yes	Yes

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## **REFINERY (I) LTD**

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### **DIVYOL DE-WATERING RUST PROTECTIVES**

**DIVYOL DE-WATERING RUST PROTECTIVES** Ferrous metals, which are prone to atmospheric corrosion, need protection during storage and use. For semi-permanent protection, plating or painting is generally resorted to. Whilst incorporation of Nickel or Chromium to the ferrous metal is carried out for permanent protection, petroleum based rust protective having superior ease of application and removal is preferred for semi-permanent protection. De-watering characteristics can also be imparted to these rust protective making them suitable for protection of parts that have residual water or condensed vapor on them. Petroleum based rust protective with dewatering characteristics are ideal for inter-process rust protection.

**DIVYOL DE-WATERING RUST PROTECTIVES** are non-asphaltic type products consisting of film forming agents and rust inhibitors in a suitable hydrocarbon carrier. On application the carrier evaporates leaving a thin self-healing rust protective film on the metal surface. These can be applied cold by dip, brush, swab or spray and are extensively used for protection of machined auto parts, tubes, sheets etc.

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### **DIVYOL DE-WATERING RUST PROTECTIVES**

DIVYOL DE-WATERING RUST PROTECTIVES are marketed in the following grades.

- **DIVYOL ANTI-RUST DW 173** has excellent properties for preventing finger print corrosion and is ideal for use on highly polished precision parts.
- **DIVYOL ANTI-RUST DW174** provides a thicker film and gives longer protection as compared to DW 173.
- **DIVYOL ANTI-RUST DW 274** is a product specially developed for the anti-friction bearing industry. It can be used as inter-process rust preventive after diluting with a suitable solvent as well as for final packing
- **DIVYOL ANTI-RUST DW 801, 802** are our solvent based exclusive products having soft films and meeting humidity cabinet control test exceeding 7 days indicating excellent salt spray protection.

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- **Major benefits offered:-**

1. They have low surface tension giving them excellent penetrating properties.
2. The use of these products prevents incipient rusting.
3. The rust protective film has see-through properties.

- **TYPICAL INSPECTIONS OF DIVYOL DE-WATERING RUST PROTECTIVES :**

Characteristics	Test Methods	DIVYOL ANTI RUST				
		DW-801	DW-802	DW-173	DW-174	DW-274
Appearance	Visual	<b>Semi-Transparent</b>				
Density @15°C	D-1298	0.832	0.832	0.849	0.859	0.859
Flash Point COC °C	D-92	45	45	45	45	45
Viscosity cSt @40°C	D-445	3.9	2.9	2.2	5.2	24

\* Specific Gravity at 30°C

\*Flash Point by Abel.

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### DIVYOL OIL BASED RUST PROTECTIVES

**DIVYOL OIL BASED RUST PROTECTIVES** are available in following grades

**DIVYOL ANTI-RUST OB 62** is a light duty protective of very low viscosity suitable of protection of highly finished precision parts such as ball bearings etc.

**DIVYOL ANTI-RUST OB 65** is a low viscosity protective suitable for use in fuel pumps and for short term protection in situations exposed to the vagaries of weather.

**DIVYOL ANTI-RUST OB 66** is SAE 50 oil suitable for protection of internal combustion engines and reciprocating type air compressors during laying up period or during shipment overseas.

- **Major benefits offered:-**

1. The oil film can be easily removed when required.
2. These protectives are compatible with the lubricant and need not be removed before putting the machine into service.
3. These are economical to apply and use, because they can cover large surface area

- **TYPICAL INSPECTIONS OF DIVYOL DE-WATERING RUST PROTECTIVES :**

Characteristics	Test Methods	DIVYOL ANTI-RUST		
		OB 62	OB 65	OB 68
Density at 15 deg C		0.880	0.88	0.895
Flash Point COC <sup>o</sup> C	D 92	150	150	150
Viscosity cSt at 40 <sup>o</sup> C	D 445	9.0	12.0	125/112

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## REFINERY (I) LTD

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### DIVYOL CLEANING FLUIDS

**DIVYOL CLEANING FLUIDS** All micro finished parts after manufacture need to be surface cleaned before these form a part of the sub assemblies or are treated with rust preventive to ultimately pack them for their marketing.

Ferrous and non-ferrous metal components and machine assemblies are usually cleaned by same cleaning fluids.

**Divyol cleaner S** is straight type cleaning agent used where there are enhances of rusting due to presence of water.

**Divyol cleaner W** is a solvent emulsion cleaner for removing mineral grease & oils.

• **Major benefits offered:-**

1. Higher Cleaning ability
2. Colorless liquid effectively removes oils and greases from metal surfaces.
3. Biodegradable and hence eco-friendly.
4. Improves productivity of cleaning operations.
5. Also helps to remove moisture from metallic surfaces.

#### TYPICAL INSPECTIONS OF DIVYOL CLEANING FLUIDS:

Characteristics	Test Method	Divyol Cleaner S	Divyol Cleaner W
Appearance	Visual	Bright & Clear	Bright & Clear
Colour	ASTM D 1500	0.5 MAX	Dark
Specific Gravity @ 30 ° C	IS 1448 P-16	Typical 0.839	0.9
Aniline Point	IS 1448 P-3	25°C	-

Note: The products needs to be used with sufficient ventilation and care should be taken to avoid any open sparks in the area of use.

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