

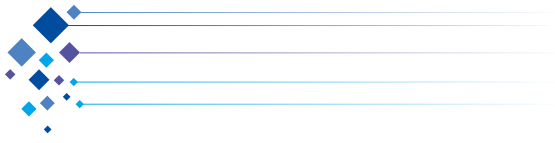
# Performance Par Excellence



Metal Drawing Compounds

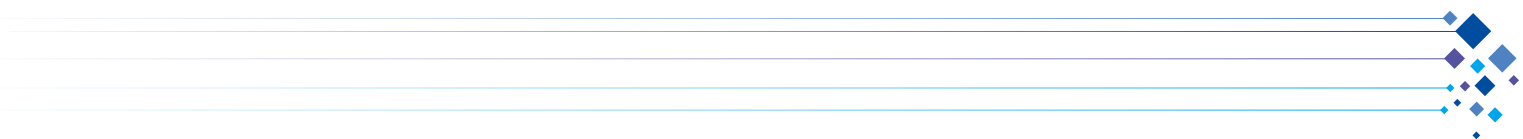
Industrial Oils

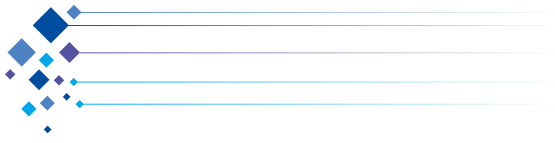




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## WIDE RANGE OF INDUSTRIAL OILS



## METAL DRAWING COMPOUNDS

### Sugar Lubes: ensure harvesting without a hitch

These lubricants ensure that machinery employed by the sugar industry operates smoothly and efficiently, especially during the harvest season when workloads are heavy and environmental conditions could be hot and humid. The lubes extend the life of mill brasses, gearboxes, turbines, and bearings while reducing maintenance checks.



## DIVYOL METAL DRAWING COMPOUNDS – WIRE DRAW 105 / 107

### Applications:

Divyol Wire Drawing Fluids 105 and 107 are fatty mineral oil-based products that can withstand extreme pressures in severe operations like forming, stamping and deep drawing of aluminium and its alloys. These products are water insoluble and are recommended to be used undiluted. They may be applied by flooding, dipping or rolling on the parts depending on the method and equipment used for drawing.

Divyol Wire Draw 105 is recommended for general purpose light duty drawing operations of soft material.

Divyol Wire Draw 107 is designed for drawing of aluminium wire used in the manufacture of aluminium cables.

### Advantages:

Divyol Wire Drawing Fluids 105 and 107 impart a bright and shiny surface on the wire. They enable maximum surface coverage (with superior wettability) and minimize friction making dies last longer. They also have excellent cooling ability and prove to be economical and power saving.

### Typical properties:

Sr. No.	Characteristics	Test Method	Divol Wire Draw	
			105	107
1	Appearance	Visual	Bright and clear	Bright and clear
2	Flash point COC, °C, min.	ASTM D 92	210	210
3	Kinematic viscosity at 40 °C, cSt, min.	ASTM D 445	200	300
4	Saponification value	ASTM D 94	19	19
5	Neutralization number, mg KOH/g max.	ASTM D 664	0.4	0.4
6	Copper strip corrosion at 100 °C, 3 hrs.	ASTM D130	1	1

The above properties are typical values and do not constitute specification of the product.

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## DIVYOL METAL DRAWING COMPOUNDS – WIRE MET SS

### Applications:

Divyol Wire MET SS is a superior performance aluminium wire drawing fluid formulated using premium grade base stocks and unique synthetic additives. It can also be used for deep drawing of wires, tube drawing, forming, spinning and similar other medium to heavy duty operations of carbon steels and nonferrous metal. It is also suitable as lubricant for dies of different classes.

### Advantages:

Divyol Wire MET SS offers enhanced surface coverage (wetting characteristics) and provides superior surface finish on drawn wires. Its excellent oxidation stability and film strength enable drawing of alloy wires at high speeds and with high oil temperatures. Its optimized viscosity provides better cooling and helps in separating fines. It's easy in pumping and effective even in boundary lubrication, thereby protecting dies.

### Typical properties:

Sr. No.	Characteristics	Test Method	Divyol Wire Met SS
1	Appearance	Visual	Homogeneous paste
2	Colour	ASTM D 1500	Whitish cream
3	Copper strip corrosion at RT 10% Sol/12 hrs.	ASTM D 130	1
4	Penetration (0.1 mm) unworked, max	ASTM D 127	320
5	pH of 10 % emulsion	–	10 Type

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## DIVYOL METAL DRAWING COMPOUNDS – WIRE MET 44

### Applications:

Divyol Wire MET 44 oil is a non-staining, water-soluble cream used for deep drawing of copper wires, tube drawing, forming, spinning and other similar medium to heavy duty operations on carbon steels and nonferrous metal. It is a whitish cream paste for 'dry on' or emulsion application. The product is a specially balanced mixture of soap and fat. For application, it has to be diluted with water in a recommended ratio of between 1 to 5% depending upon the gauge of the wire to be drawn.

### Advantages:

Divyol Wire MET 44 metal drawing compound has excellent film strength and cooling ability.

### Typical properties:

Sr. No.	Characteristics	Test Method	Wire Met 44
1	Appearance	Visual	Homogeneous paste
2	Colour	ASTM D 1500	Whitish cream
3	Stability of 10% emulsion	ASTM D	Stable
4	Cu strip corrosion at RT 10% solution/12 hrs.	ASTM D 130	1
5	Total fatty matter, % by weight	ASTM D	53
6	Penetration (0.1 mm) unworked, max.	ASTM D 127	320
7	pH of 10 % emulsion	–	10 Type

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# DIVYOL SUGAR MILL BEARING LUBRICANTS – SUGAR LUB 20L / 20 / 30 / 40 / 60

**Applications:**

Divyol Sugar Lub 20L, 20, 30, 40 and 60 are lubricants specially formulated for use in cane mills which are the heart of any sugar factory. The lubrication of the crusher and squeezing mill roll bearings together with their gear drives has always been a challenge for operating personnel. Only the right lubricant in the correct quantities used at correct intervals will facilitate consistent performance from these machines. These oils help form a film with adequate strength and adhesiveness for the roll neck bearings to withstand operational rigors like shock loadings and juice washing. These oil blends were formulated with high viscosity lubricating oil base stocks, compounding agents and select additives to obtain non-toxic mild EP properties.

Divyol Sugar Lub 20L is the lightest of these blends, suitable for light loads and most useful in cold seasons.

Divyol Sugar Lub 20 and 30 are recommended for light to medium load bearings in cold weathers.

Divyol Sugar Lub 40 is a medium viscosity mill bearing oil recommended for heavier loads.

Divyol Sugar Lub 60 is a high viscosity mill bearing oil recommended for heavily loaded bearings with larger clearances and diameters.

**Advantages:**

Divyol Sugar Lub oils prevent wear and corrosion of bearings and have excellent resistance to leakage. They optimize machine performance with uninterrupted service and prove to be economical in use.

**Typical properties:**

Sr. No.	Characteristics	Test Method	Divyol Sugar Lub				
			20L	20	30	40	60
1	Colour	ASTM D 1500	Black	Black	Black	Black	Black
2	Kinematic viscosity at 100 °C, cSt, min.	ASTM D 445	32 – 43	38 – 49	60 – 70	78 – 90	120 – 130
3	Flash point, COC, °C, min.	ASTM D 92	200	200	200	200	200
4	EP characteristics	Presence	Yes	Yes	Yes	Yes	Yes

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## DIVYOL STAINLESS STEEL TUBE DRAWING OILS – TD 81 / TD 82

### Applications:

Divyol Stainless Steel Tube Drawing Oils TD 81 and TD 82 are blends comprising the highest quality solvent refined mineral oils and high performance EP additive that facilitate forming operation. They are widely used in deep drawing operation where EP performance is required and suitable for stainless steel, mild steel and alloy steels. They are highly recommended for stainless steel tube cold pilgering operation.

### Advantages:

Divyol Stainless Steel Tube Drawing Oils TD 81 and TD 82 perform with high stability even at high temperatures. They impart good surface finish on worked metals. They are suitable for a wide range of materials and their excellent EP properties ensure longer service life of tools.

### Typical properties:

Sr. No.	Characteristics	Test Method	Divyol Stainless Steel Tube Drawing Oil	
			TD 81	TD 82
1	Appearance	Visual	Bright and clear	Bright and clear
2	Colour, max.	ASTM D 1500	2.5	1.0
3	Flash point COC, °C, min.	ASTM D 92	210	200
4	Kinematic viscosity at 40 °C, cSt, min.	ASTM D 445	158	295
5	Viscosity index, min.	ASTM D 2270	95	110
6	Pour point, °C, max.	ASTM D 97	-3	-3
7	Copper corrosion	ASTM D 130	1b	1b

The above properties are typical values and do not constitute specification of the product.

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**Gandhar Oil Refinery (India) Limited**

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**Registered Office**

18th Floor, DLH Park, S. V. Road, Goregaon (W), Mumbai 400062, India. | Phone: +91-22-40635600 | Fax: +91-22-40635601  
Email: [sales@gandharoil.com](mailto:sales@gandharoil.com) | Website: [www.gandharoil.com](http://www.gandharoil.com)

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