

980 Series IRMCO GEL ® 980-000

The 980 Series IRMCO GEL ® products are designed for tube bending applications where it is critical that the lubricant remains on the surface where it is applied.

IRMCO GEL 980-000 is a mandrel tube bending gel lubricant with consistency between NLGI 0 and 00. Eliminates housekeeping issues associated with bending oils. Light amber in color and clear. For use on carbon and some stainless steels. Do not dilute.

Typical applications include bending automotive exhaust systems.

Former Designation: IRMCO 980-00M

OEM Approvals*: Addison Tube Forming Limited Eagle Eaton Leonard Ford Motor Company

OPERATIONS	METALS	APPROVED IN			
Bending Blanking Cutting Drawing Extruding Grinding Hydroforming Ironing Punching & Piercing Roll forming Spinning	Aluminized Aluminized Brass / Copper Steel Stainless Steel High Strength Steel Zinc Carbide Tooling	US Canada Mexico Europe			
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KEY

✓ : Recommended use

* : Alternative use

v : Not Recommended

Blank values indicate that this information is not currently available. Check with IRMCO for more details

PRODUCT PROPERTIES

Appearance:	Clear, Light to da	<u>Ten</u>	<u>dency</u>	<u>Stability</u>			
Density:	8.244 lb/gal	61.67 lb/ft3	988.671 kg/m3	0.988 kg/L	Foam (ml):		

Viscosity (40°C): -- -- -- pH: 8.01

Dilution (Water:Lubricant)	0:1	1:1	2:1	3:1	4:1	5:1	6:1	7:1	8:1	9:1	10:1	12:1	15:1	20:1	25:1	30:1
Lubricant (%)	100%	50%	33%	25%	20%	16.7%	14.3%	12.5%	11.1%	10%	9.1%	7.7%	6.3%	4.8%	3.8%	3.2%
Fluid tester (0-30):	19.9	9.9	6.6	5.0	4.0	3.3	2.8	2.5	2.2	2.0	1.8	1.5	1.2	0.9	8.0	0.6
Brix (%):	21.3	5.3	2.4	1.3	0.9	0.6	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0

Residue: Viscous film requiring proper removal

Flash point: None.

Container Storage: Indoor suggested. Product will freeze at 32° F (0° C).

Application Equipment: IRMCO GEL Ejector assembly

Coverage: 7,600 - 11,000 ft2/gal 180 - 280 m2/l 400 - 600 mg/ft2 4.5 - 6.5 g/m2 7,600 - 11,000 ft2/gal 180 - 280 m2/l 400 - 600 mg/ft2 4.5 - 6.5 g/m2

Dilution: Do not dilute. Use neat product.

Parts cleaning: Plain water rinse and/or mild alkaline cleaner 110° F (43.3° C).

Tooling clean-up: IRMCO 819-000, IRMCO 957-000 Cleaner-Degreaser or suitable rust inhibiting, water based cleaner.

Disposal: Sewer with local pre-approval.

Press Grease: For optimum results use recommended "Water Resistant Marine Grease" available from www.chemtool.com (815-459-1250).

Special precautions: This product is not compatible with acid, extreme caustic, or solvent type cleaning. Equipment should be painted with alkaline

resistant epoxy paint such as Sherwin-Williams Tile Clad II (B62W101) or Devoe Coatings Devran 250.

GUARANTEE: Should you have a problem with any IRMCO item, notify your IRMCO representative for a replacement, credit or refund.

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NOTICE TO ALL IRMCO USERS:

IRMCO Advanced Lubricant Technologies IRMCO Product Data Sheet

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^{*} For more information, please request IRMCO OEM Approval list.

We believe all the information contained in this document to be reliable, though the accuracy or completeness is not guaranteed. IRMCO FLUIDS®, IRMCO GEL® and IRMCO EXTREME® products have been used extensively throughout the world in a variety of manufacturing and production applications. It is the responsibility of users of IRMCO products to meet the component surface quality, process compatibility or cleanliness requirements of their customers. Given the complexity and variety of users applications and processes, IRMCO cannot predict all user conditions and results. If surface quality, process compatibility or cleanliness is a user concern, then IRMCO recommends removing/cleaning off the IRMCO product film from the components before final assembly and distribution of such components. User assumes all risk and liabilities associated with the products used.