

Advancing the Science of Sealing™

FULLY MOLDED CUPS AND PACKING



Garlock
SEALING TECHNOLOGIES®

an EnPro Industries company

Fully Molded Cups and Packing

Valve Cups

LUBRIKUP® Valve Cups are available in API design, Lip-Type and our original Wood-Type design in hard, medium and soft densities. Product compositions are duck and rubber, and our premium reinforced material is specially formulated for LUBRIKUP®, along with our Lo-Friction material.

The basic ingredient of all lo-friction materials, except the soft Type #58, is nylon-plastic. Nylon has general characteristics of strength, toughness, resiliency, plus abrasion and corrosion resistance. It also has a low coefficient of friction. Because of its high melting point, it is very good for operations requiring higher than normal heat resistance.



Fabric Reinforced Materials

Style	Density	Max. Temp.	Depth	Conditions
<i>Industry Standard (RC)</i>				
537	Soft	250°F / 121°C	Shallow wells approximately 600 feet	Well with average weight oil with low percentage of water
397	Medium	250°F / 121°C	Well depth up to 2000 feet	Wells with heavy fluid with a high level of water
137	Hard	250°F / 121°C	Depth greater than 2000 feet	Deep wells and heavy pressure conditions
<i>Premium Grades (PR)</i>				
378	Medium	250°F / 121°C	Well depth up to 2000 feet	Wells with heavy fluid with a high level of water
218	Hard	250°F / 121°C	Depth greater than 2000 feet	Deep wells and heavy pressure conditions

Lo-Friction Materials

Style	Density	Max. Temp.	Depth	Conditions
58	Soft	200°F / 93°C	Shallow wells approximately 600 feet	Well with average weight oil with low percentage of water
MS-15	Medium	300°F / 149°C	Shallow to medium depth wells up to 2000 feet	Wells with heavy fluid with a high level of water
24	Med. / Hard	300°F / 149°C	Shallow to medium depth wells up to 2000 feet	Wells with heavy fluid with a high level of water
500	Hard	300°F / 149°C	Depth greater than 2000 feet	Deep wells and heavy pressure conditions

Fully Molded Cups and Packing

Seating Cups

LUBRIKUP® **Type HR Seating Cups** are manufactured to comply with API Standard 11AX. Molded in proper density, the cups assure precision fit in a seat formed in accordance with API standards. Type HR Seating Cups are available in Regular Composition, Hi-Temp, and Nylon-Plastic.



LUBRIKUP® **Type O Seating Rings** are molded with the same precision as the Type HR seating cups and made in a similar design with the exception that the clamping flange is omitted. Type O Seating Cups are available only in nylon-plastic. Both types are available in most popular sizes.

Fabric Reinforced Materials

Style	Density	Max. Temp.
Industry Standard (RC) 667	Hard	250°F / 121°C
Premium High Temp (HT) 749	Hard	300°F / 149°C

Lo-Friction Materials

Style	Density	Max. Temp.
100	Hard	250°F / 121°C
500	Hard	300°F / 149°C

FLUID-SEAL™ Rod Packing

FLUID-SEAL™ Rod Packing incorporates the proven theory of lip-type action (sealing from pressure), with space provided between each ring to assure a perfect, nonbinding fluid seal for lubrication of the rod.

This packing requires no tightening. It performs best when run loose (finger-tight). Normal operating pressure expands the lips to compensate for wear until the packing is completely worn out.



MATERIALS: Standard Material
DURATUFF®

STANDARD MATERIAL: Material composition includes Nitrile elastomer and cotton fabric specifically formulated to be compatible with petroleum oils and gasoline commonly found in oil and gas production. Good abrasion resistance.

Temperature capability: 250°F / 121°C
-20°F / -20°C

DURATUFF®: Formulated with cotton fabric and the DURATUFF® elastomer for higher temperature and steam capability.

Temperature capability: 325°F / 162°C
-30°F / -30°C



Fully Molded Cups and Packing

Fluid-Seal™ Cone Packing

The sensational performance of Fluid-Seal Rod Packing is now available for cone-type stuffing boxes. Lip-type sealing action and space between each ring (sealing from pressure) creates a perfect, nonbinding fluid seal, provides and holds rod lubrication, and prevents slippage. When packing is installed finger-tight, rod contact is reduced by one-third, greatly reducing friction and increasing rod and packing life.



MATERIALS: Standard Material
DURATUFF®

STANDARD MATERIAL: Material composition includes Nitrile elastomer and cotton fabric specifically formulated to be compatible with petroleum oils and gasoline commonly found in oil and gas production. Good abrasion resistance.

Temperature capability: 250°F / 121°C
-20°F / -20°C

DURATUFF®: Formulated with cotton fabric and the DURATUFF® elastomer for higher temperature and steam capability.

Temperature capability: 325°F / 162°C
-30°F / -30°C

Cone Packing

LUBRIKUP® has the quality and experience to satisfy your Cone Packing needs. Cone Packing is available in a wide range of materials: Regular, TEFLON* Flake, DURAGOLD™ (Brass Flake) Impregnated, a Blended DURAGOLD and TEFLON Flake, or DURATUFF®.

- Excellent resistance to petroleum oils and gasoline
- Good heat resistance
- Flexibility in low temperatures



MATERIALS: Regular
Dura Gold™
*Teflon Flake
DURATUFF®

*Teflon is a registered trade name of DuPont

REGULAR: Formulated specifically to be compatible with petroleum oils and gasoline. Good abrasion resistance.

Temperature capability: 250°F / 121°C
-20°F / -20°C

DURAGOLD™: Using the same compound as with our “Regular” formulation with the addition of brass flakes designed to eliminate foreign material build up on the polish rod.

TEFLON-FLAKE: Using the same compound as with our “Regular” formulation with the addition of Teflon which adds lubricity for the high speed pumping units.

DURATUFF®: Formulated with higher temperature capability and the resistance against steam.

Temperature capability: 325°F / 162°C
-30°F / -30°C

Fully Molded Cups and Packing

LONG-LIFE™ Packing

The proven performance of FLUID-SEAL™ Rod Packing is now available in LONG-LIFE™ Packing. LONG-LIFE™ Packing is available for Ratigan stuffing boxes in all rod sizes. The polished rod surface contact is reduced by one-third, greatly reducing friction and increasing rod and packing life.



Available in Regular, TEFLON* Flake or DURAGOLD™ (Brass Flakes) Impregnated. Material is compounded for excellent oil and abrasion resistance, heat resistance, and flexibility in low temperatures.

MATERIALS: Regular
Dura Gold™
*Teflon Flake
DURATUFF®

REGULAR: Formulated specifically to be compatible with petroleum oils and gasoline. Good abrasion resistance.

Temperature capability: 250°F / 121°C
-20°F / -20°C

DURAGOLD™: Using the same compound as with our “Regular” formulation with the addition of brass flakes designed to eliminate foreign material build up on the polish rod.

TEFLON-FLAKE: Using the same compound as with our “Regular” formulation with the addition of Teflon which adds lubricity for the high speed pumping units.

DURATUFF®: Formulated with higher temperature capability and the resistance against steam.

Temperature capability: 325°F / 162°C
-30°F / -30°C

LUBRIPAK™ Packing

LUBRIPAK™ rubbers (2 sets per package) are made in all polished rod sizes for Type “B” and “X” stuffing boxes. Special rubber compounds of proper durometer assure excellent service under all operating conditions.



Available in Regular, TEFLON* Flake, DURAGOLD™ (Brass Flakes) Impregnated and Blended DURAGOLD™ TEFLON Flake.

MATERIALS: Regular
Dura Gold™
*Teflon Flake
DURATUFF®

REGULAR: Formulated specifically to be compatible with petroleum oils and gasoline. Good abrasion resistance.

Temperature capability: 250°F / 121°C
-20°F / -20°C

DURAGOLD™: Using the same compound as with our “Regular” formulation with the addition of brass flakes designed to eliminate foreign material build up on the polish rod.

TEFLON-FLAKE: Using the same compound as with our “Regular” formulation with the addition of Teflon which adds lubricity for the high speed pumping units.

DURATUFF®: Formulated with higher temperature capability and the resistance against steam.

Temperature capability: 325°F / 162°C
-30°F / -30°C



* TEFLON is a registered trademark of DuPont.

LUBRIKUP, LOCK-PACK, LUBRIPAK, DURAGOLD, FLUID-SEAL, and LONG-LIFE are trademarks of LubriKup Company.

Fully Molded Cups and Packing

Style 8950 Pressure Actuated Ring

The LUBRIKUP® “PA” ring is designed to give superior service in the time-tested pressure-actuated plungers used extensively in the oil industry. Field tests have shown excellent ring life and high pump efficiency.

- Precision-molded nylon-plastic material
- Resistant to hydrocarbons
- Available in all popular sizes from 1-1/4” to 2-1/4”
- Temperature range from -40°F to +350°F (-40°C to +177°C)
- No special tools needed for installation



Type “B” and Resistoil Composition Rings

LUBRIKUP® Type “B” flange and split composition rings are made from a blend of duck and rubber especially compounded for oil well pumping. Each ring is precision ground to assure uniformity of bearing contact in precision barrel tube or working barrel. The rubber is compounded to resist bloom that gives unnatural swell. The material will resist temperatures up to 270°F (132°C) with excellent results.

LUBRIKUP® RESISTOIL flange and split rings are made from a special composition of neoprene and cotton duck. Engineering a composition ring that resists swell was another LUBRIKUP® first.



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WARNING:

Properties/applications shown throughout this brochure are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult Garlock. Failure to select the proper sealing products could result in property damage and/or serious personal injury.

Performance data published in this brochure has been developed from field testing, customer field reports and/or in-house testing.

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