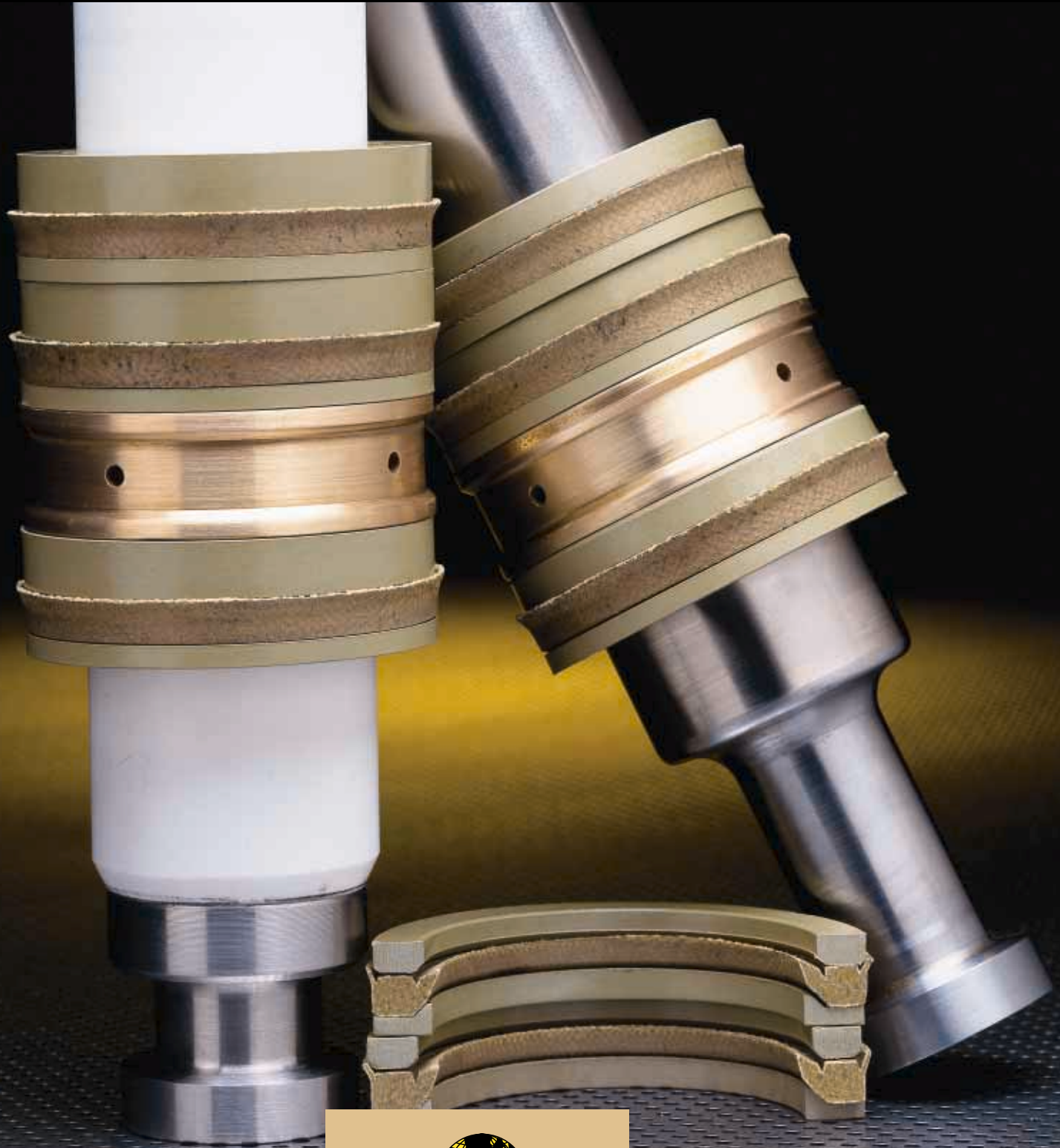


UTEX INDUSTRIES, INC.

# 858<sup>TM</sup> SUPER GOLD



**UTEX INDUSTRIES, INC.**  
*Taking Sealing Technology Beyond Tomorrow*  
[www.utexind.com](http://www.utexind.com)



# SuperGold<sup>™</sup> 858

*“...858 can save time and money eliminating the need for lubrication and frequent packing...”*

## The next generation of plunger pump packing!

Lasts up to four times longer without lubrication! Developed specifically for use in plunger pumps, SuperGold 858

is a non-adjustable molded packing that does not require lubrication in most services.

SuperGold 858 is an improvement of the patented UTEX J-Design 838 packing. It delivers a longer life than 838 when not lubricated, tolerates higher temperatures and pressures, provides the same resistance to over tightening, and is as readily available in the marketplace.

SuperGold 858 can save time and money in your plant by eliminating the need for lubrication and frequent packing replacement. And it can be substituted for UTEX J-Design 838 or similar packings with little or no pump modification.



## Longer life under extreme conditions.

SuperGold 858 is made with a high temperature resistant nitrile and a strong aramid

fabric/modified elastoplast composite jacket. A special low-friction enhancement is compounded into the elastoplast binder to improve its performance without lubrication. The seal rings are typically backed up with hard, modified glass-reinforced polyphenylene sulfide (PPS) adapters.

SuperGold 858 has been successfully used at temperatures up to 180°F (82°C) and at pressures up to 2200 psi (151 bars). Laboratory tests indicate it can be used at 250°F (121°C), 2,500 psi (172 bars) without lubrication, or 300°F (148°C) and 5,000 psi (345 bars) with lubrication.

**SuperGold 858 easily replaces older types of packing.**

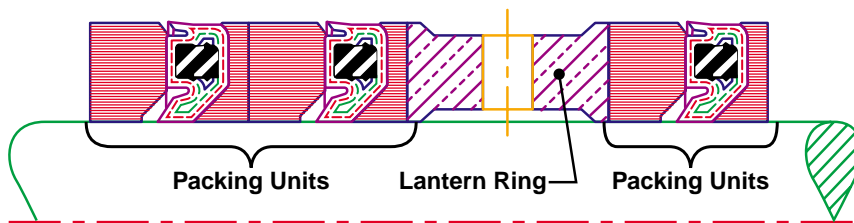


Figure 1

SuperGold J-Design 858 is available in three basic assembly configurations. The first configuration has three pressure rings as shown in Figure 1 and is a direct conversion from the older style 838. This configuration is designed for use with packing lubrication.

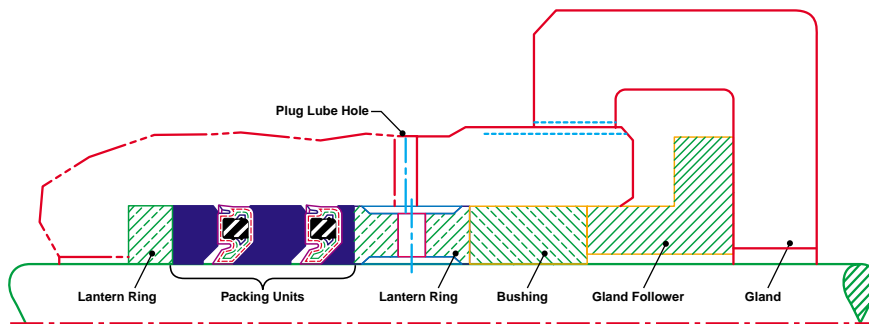


Figure 2

In non-lubricated assemblies or in assemblies using an outside drip lubrication system, UTEX recommends using fewer packing rings. The extra packing space should be filled with a metal bushing, as in Figure 2. The bushing may be supplied by either the customer or UTEX.

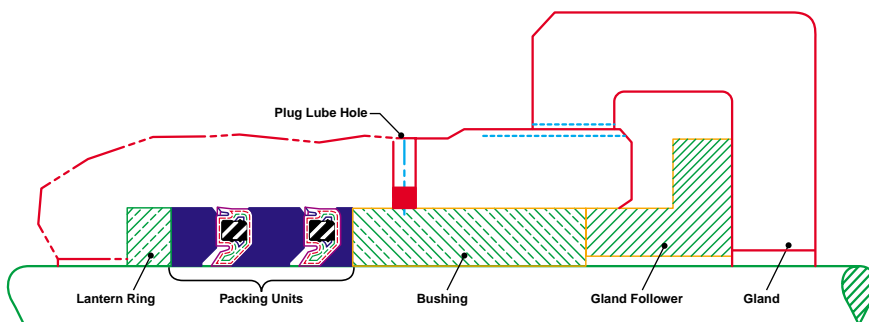


Figure 3

In some assemblies, a single metal bushing may be used to replace a packing ring and a metal lantern ring, as in Figure 3. The replacement bushing is available from UTEX or may be provided by the customer.



Figure 4

Style SuperGold 858 pressure ring material can also be furnished in other molded packing designs such as those shown in Figure 4.

Lubrication can be continued if desired. While the life of SuperGold 858 packing without lubrication is far longer than standard un-lubricated packings, using lubrication with SuperGold 858 will extend its performance substantially.

**High performance laboratory tests show SuperGold 858 has longer packing life.**

In laboratory material tests, SuperGold 858 was compared to UTEX 838 based on the material compositions. The chart below shows the comparison between the materials.

A laboratory pump test was performed comparing Super Gold 858 to Utex 838. All tests were performed using a 45 hp triplex plunger pump operating at 400 spm with a 2½ inch stroke operating at 2200 psi (151 bars) pumping a high mineral content water. Tests were performed with a two-unit assembly with no external lubrication (See figure 2, figure 3). On the average, the 858 SuperGold lasted 231 percent longer than the Utex 838.

**Standard 838 J-Design Composite Compared to 858 J-Design Composite**

	<b>Wear Loss (mg)</b>	<b>Wear Loss (cc)</b>	<b>μf</b>	<b>Adhesion (lbf)</b>	<b>Tear (lbf)</b>
<b>Original 838 Elastomer</b>	120	0.10	0.87	N/A	186
<b>Original 838 Composite</b>	197	0.173	0.94	25	1282
<b>858 Elastomer</b>	60	0.04	0.64	N/A	430
<b>858 Composite</b>	42	0.037	0.54	23	2326





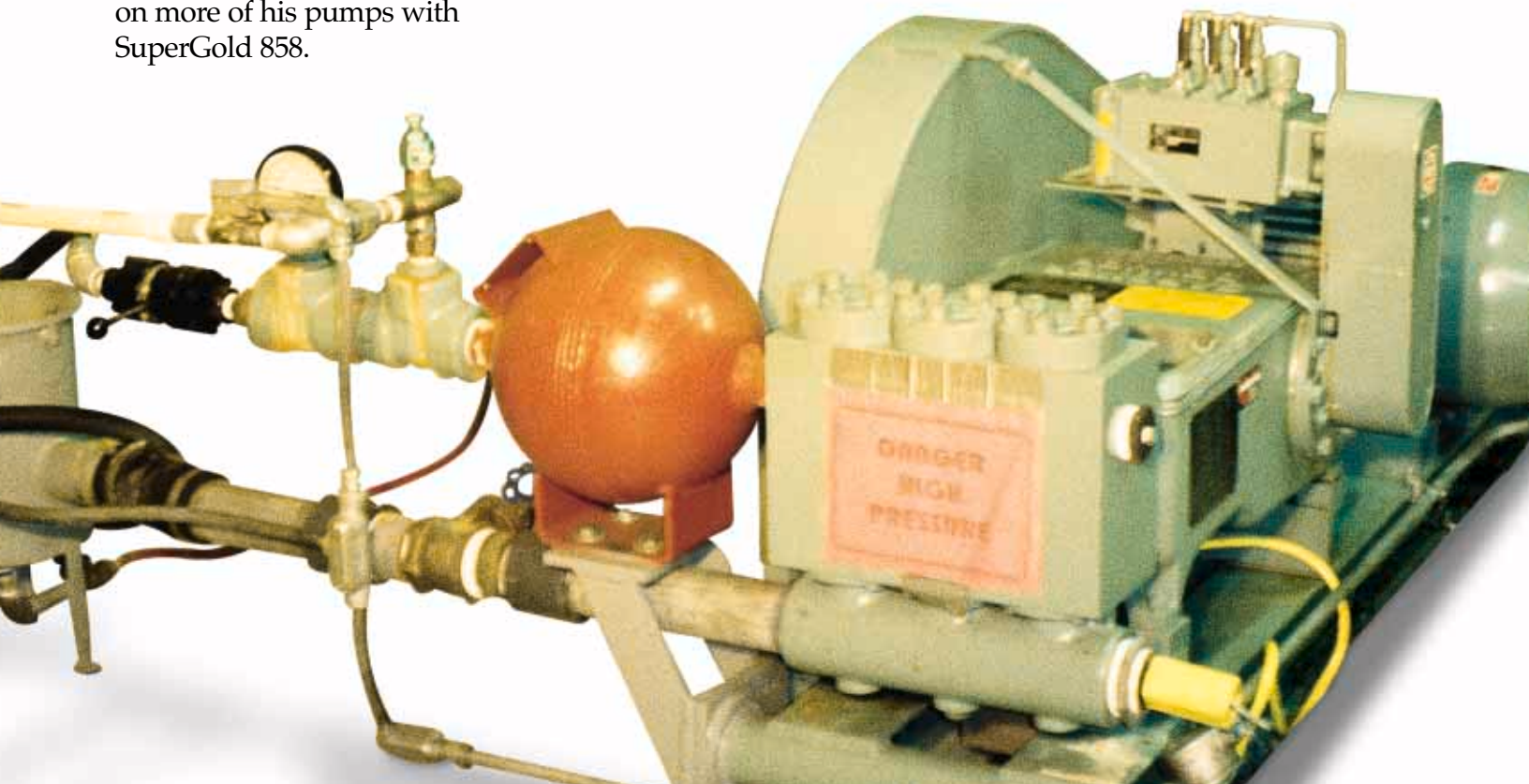
## SuperGold 858 outperforms other packings in field tests

### Colorado Oil Field Test

SuperGold 858 packing was installed in a Colorado oil and gas operator's plunger pump. The packing proved to last five times longer than UTEX standard 838 J-Design packing with lubrication. The pump with SuperGold 858 was still running drip-free after 105 days without lubrication. The packing failed on the 160th day. The best performance the operator had obtained using the standard packing was 21 days. As a result of this test, the operator is planning to replace the packing on more of his pumps with SuperGold 858.

### Texas Gas Plant Test

A Texas plant operator installed SuperGold 858 packing in his GASO-3088M plunger pump. The pump is used to pump natural gas liquid (NGL) at 297 strokes/minute. Average life of packing materials previously used with lubrication at 4 to 6 drips per minute was one to two weeks. The SuperGold 858 without lubrication lasted 20% longer than the material the operator had previously been using.



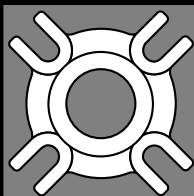


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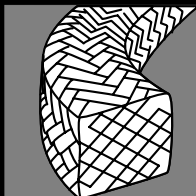
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