

# CHESTERTON® 370 CARBON YARN PACKING

ISO 9001 CERTIFIED

## The Only Pump Packing Most Plants Need



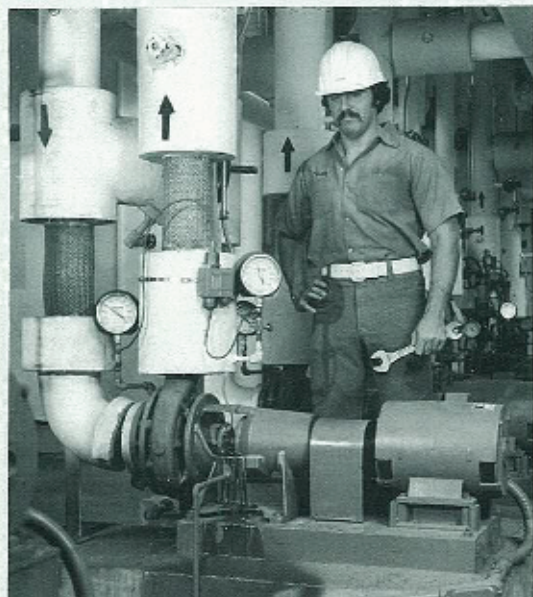
- Economical
- Low Friction

- Fast break-in; few adjustments; controlled leakage; long life
- Controls water, steam, boiler feed water, aqueous solutions of acids, alkalis, for pH 0 to 14\*, and from low temperatures to 800°F† (430°C)
- Multi-service permits plant-wide standardization; reduces inventory requirements.
- Low leachable chloride content for applications and industries where halogen content is restricted, such as nuclear‡, petrochemical, fossil fuel plants
- Interbraid construction, with 4-stage lubrication, controls leakage with minimal friction; allows turning off flush in many applications
- Reduced leakage and flushing; cuts cost associated with housekeeping, sewage treatment, product dilution and evaporation losses.

\* Consult factory for nitric acid applications. See also Chemical Properties on certain acid restrictions.  
 † Above 600°F (315°C), loss of FIRST STAGE lubricant may require one or two initial extra takeups on gland.  
 ‡ Can be certified to less than 200ppm leachable chloride. Consult factory for specific chemical assay.

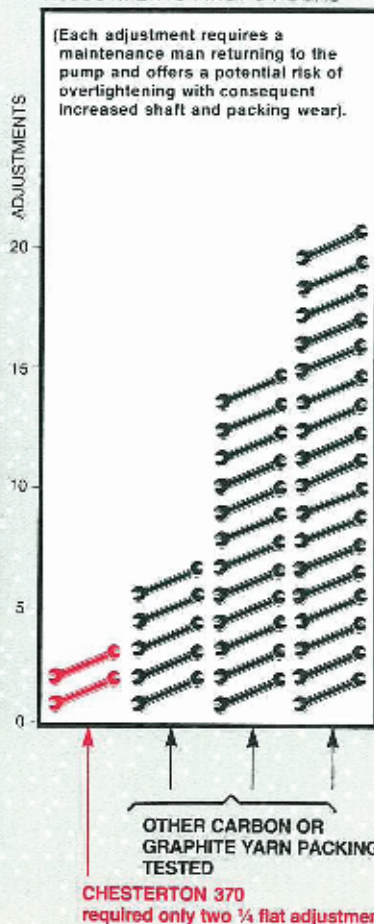
## CONTROLS LEAKAGE WITHOUT CONTINUAL ADJUSTMENTS

Typical test data comparing CHESTERTON 370 with other carbon or graphite yarn packings tested.

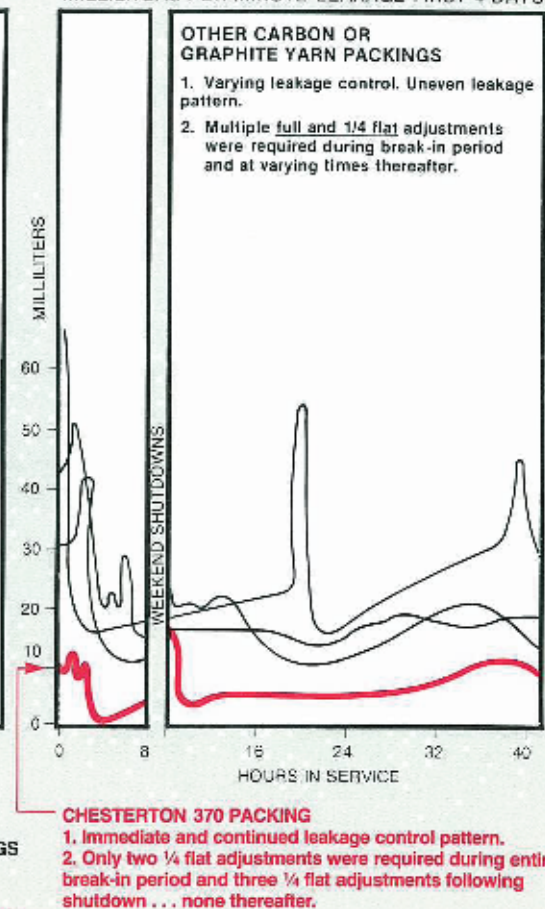


CHESTERTON 370 controlled leakage best without continual adjustments! Improved efficiency reduces repacking maintenance cost.

ADJUSTMENTS FIRST 8 HOURS



MILLILITERS PER MINUTE LEAKAGE FIRST 4 DAYS





## FOUR-STAGE LUBRICATION PROVIDES PROTECTION AGAINST HEAT AND SHAFT WEAR

- 1. High-temperature, non-glazing special lubricant** protects shaft and packing during fast (often under 15 minutes) break-in period. This special lubricant is non-carbonizing, odorless, non-toxic and will not turn rancid.
- 2. Graphite flake particles cover the carbon yarn** providing non-migrating lubrication to the shaft surface and act as a blocking agent against wicking action.
- 3. High-pressure, high-temperature lubricant** provides shaft protection even when contact pressure between packing and shaft is excessive.
- 4. Self-lubricating carbon yarn** controls wear evenly during long service life. Carbon is recognized as an ideal sealing material in mechanical seals. As a yarn, interbraided into 370 packing, these qualities provide a dense, formable surface to seal against the shaft with almost frictionless contact. As the carbon yarn slowly wears, the surfaces exposed are continually self-lubricating.

### SERVICES

Extreme Shaft Speeds  
 Extreme Temperatures  
 Strong Chemical Services  
 Petroleum Services  
 Oil, Water, Air and Ammonia  
 All Alkalies  
 Most Other Services

### CHEMICAL PROPERTIES

370 is non-reactive with most chemicals from pH 0 to 14. Exceptions are oleum, fuming nitric, aqua regia and fluorine. Hydrofluoric acid and hydrochloric acid will not attack 370 unless it is used as a positive electrode in the electrolysis of an aqueous acid solution. 370 is recommended for strong solvents but caution should be exercised as the solvents might wash out some of the special lubricants.

## THE ONLY PUMP PACKING MOST PLANTS NEED

CHESTERTON 370 is manufactured from a high-quality carbon yarn. 370 in interbraid construction incorporates particles of pure graphite, high-temperature special oils which act as long-life lubricants and blocking agents. This exclusive feature allows CHESTERTON 370 to be used in services where asbestos-PTFE type packings fail due to burning, glazing, migration or loss of lubrication which is their "weak-link". The low-friction carbon yarn has exceptional high-temperature capability in a non-oxidizing environment.

With these features you can eliminate the risk of burned packing and minimize shaft wear due to overtightening or misapplication. 370 provides the first viable replacement for conventional packings in applications where easier installation, lower operating cost, controlled leakage and minimum shaft scoring are determining factors. With reduced inventory requirements, fewer adjustments and longer service life, CHESTERTON 370 offers the lowest total costs for your packing standardization program.

APPROXIMATE DATA						
Size		Packaged $\pm 10\%$		Reorder Product No.	Lengths per Weight	
Inch	mm.	lbs.	kg.		Ft./lb.	M/kg.
1/8"	3.2 <sup>1</sup>	2	0.908	037060	124.2	83.4
3/16"	4.8 <sup>1</sup>	2	0.908	037062	80.1	40.4
	6.0 <sup>1</sup>	2	0.908	037063	37.2	25.0
1/4"	6.4 <sup>1</sup>	2	0.908	037064	31.8	21.4
		5	2.270	037073		
5/16"	8.0	2	0.908	037065	17.3	11.6
		5	2.270	037074		
3/8"	9.5	2	0.908	037066	11.4	7.7
		5	2.270	037075		
		10	4.540	037081		
	10.0	2	0.908	037067	10.9	7.3
		5	2.270	037076		
7/16"	11.1	2	0.908	037068	9.5	6.4
		5	2.270	037077		
1/2"	12.7	5	2.270	037078	8.2	5.5
		2	0.908	037070		
		5	2.270	037079		
		10	4.540	037083		4.8
9/16"	14.3	5	2.270	037080	5.5	3.7
5/8"	15.9	10	4.540	037085	4.7	3.2
11/16"	17.5	10	4.540	037086	4.2	2.8
3/4"	19.1	10	4.540	037087	3.5	2.4
7/8"	22.2	10	4.540	037088	2.5	1.7
1"	25.4	10	4.540	037094	1.9	1.3

<sup>1</sup>Slightly different construction

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