

NEW EG8G-S FILAMENT

PTFE - Graphite Filament for Packings



Encapsulated Graphite Particles

- Minimizes fluid contamination risk

Improved Performance

- On the braiders
- In the field

Reduced operating costs in the field

- Lower power consumption
- Reduced installation time
- Reduced gland adjustments
- Longer service life



Sealing for a Safer and Greener Tomorrow

EG8G-S Filament

PTFE - Graphite Filament for Packings

DESCRIPTION AND APPLICATIONS:

EG8G-S Expanded PTFE filament for packings has been developed to meet the most demanding service requirements in pumps, agitators, mixers, refiners and other rotating equipment; it can also be used for valve packings. The PTFE resin is combined with Graphite and expanded using the latest technology, resulting in a filament with exceptional mechanical properties. A proprietary manufacturing process adds a thin film of Graphite particles to the internal surfaces of the filament, resulting in a product with high thermal conductivity and low thermal expansion. The Graphite particles are completely covered and protected by PTFE.



Comparison testing of compression packings manufactured with EG8G-S filaments and other widely used Expanded PTFE filaments, has proven that the EG8G Series filaments provide the user with lower leak rate, longer running life, less shaft scoring, and lower power consumption.

Physical Properties			
	TEADIT EG8GS		COMPETITOR
	Typical Values	Specification	Typical Values
Filament Weight (tex)	2270	2070-2460	2300
Lubricant (%)	22	19.5 - 24.5	24
Tensile Strength (kgf)	11	≥7.5	7.0
Weight loss - 250°C @2h (%)	0.9		2.7
Shrinkage - 260°C @15min (%)	1.70		1.80
Elongation at maximum force (%)	9.5		9.8

Test-Bench Performance		
	TEADIT EG8GS	COMPETITOR
	Typical Values	
Average Power Consumption (w)	1120	1435
Average Temperature (°C)	55	59
Average Leak (ml/min) - Stuffing Box	16	28
Average Leak (ml/min) - Shaft	2	3

* Test Method can be found at http://www.teadit.com/br/images/publicacoes/metodo_de_teste_eg8gs.pdf

Cost Savings	
Difference in power consumption, W	315
Energy cost, \$/kw/hr	0,053
Electrical Cost savings, (720 hrs/month)	11.45 \$
Packing Cost (4 rings, 80 g)	8-12 \$
1 Month payback!	

Since all properties, specifications and application parameters shown throughout this folder are approximate and may be mutually influenced, your specific application should not be undertaken without independent study and evaluation for suitability. All technical data and advice given is based on experiences TEADIT® has encountered to date. Failure to select proper sealing products can result in equipment damage and/or personal injury. Properties, specifications and application parameters are subject to change without notice. TEADIT® does not assume any liability of any kind whatsoever.



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