



ROBCO 1200



ROBCO 1200 THERMOGRAF[®] is braided from exfoliated, expanded graphite and calendered to a density of 65-70 lbs/ft³. Its chemical resistance is almost universal with a few exceptions, including highly concentrated mineral acids such as nitric, aqua regia (a mixture of nitric and hydrochloric acid), and chromic and dichromic acids and their salts (ie. chromates and dichromates). It combines extreme self-lubricating properties with pressure bearing capabilities, outstanding resilience, and, unlike many synthetic yarns, a coefficient of expansion highly compatible with metals such as cast iron.

Possible Applications

In valves ROBCO 1200 THERMOGRAF[®] is frequently used in combination with Inconel[®] reinforced, 95% carbon assay yarn end rings. This represents a reliable replacement for high temperature asbestos packings, historically recommended on superheated steam valves to 1250°F up to 2500 psi or higher. Exfoliated expanded graphite, such as ROBCO 1200 THERMOGRAF[®], may provide service for cryogenic applications to 5000°F or more (temperatures not normally reached in non-oxidizing environments). In oxidizing environments it is suitable to 850°F.

SPECIFICATIONS	
pH range	1 to 14
Temperature limit	-400°F 1200°F (-204°C to 650°C)
Pressure limit	2500 psi (17.24 MPa)
Construction	Translok
Material	Expanded exfoliated graphite
Lubrication	Graphite
Corrosion Inhibitor	Phosphorus (zinc on request)

in.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1
ft./lb.	113.0	52.0	23.0	18.0	13.0	10.0	8.0	7.0	4.0	3.5	2.7	2.0

Disclaimer: The temperature limits, pH ranges, pressure ratings, feet per box and shaft speeds shown throughout this pamphlet are representative; the service life and performance of these products can be affected by elevated temperatures and other operating conditions such as chemical resistance, shaft speeds, pressure and equipment in which that the product is being installed. The ratings supplied are suggested as a guideline and should only be used for evaluating your specific application. When in doubt, contact Robco or your ENVIROPAK distributor. *The information contained in the pamphlet should not be considered to be a warranty, expressed or implied, including, but not limited to, a warranty of merchantability or fitness for a particular purpose. In no event shall Robco be liable for any incidental or consequential damages resulting from the use, misuse or inability to use the products.* This exclusion applies regardless of whether such damages are sought based on breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory.