

**TECHNICAL DATA SHEET**

## Ingraf Flexible Pure Graphite Ring **INMARCO STYLE 300**

### Description:

**STYLE INGRAF® 300** is a high purity (99% to 99.9% carbon) self lubricating and anti-frictional die moulded pre-formed gland packing ring manufactured from Flexible Pure graphite Foil. These rings are manufactured in endless form or in 2 halves in oblique cut containing no Oil or grease or Binder/ Additives of any kind. The packing however is incorporated with sacrificial metal corrosion inhibitor to avoid Galvanic Corrosion on parent body.

**STYLE INGRAF®300** is manufactured from flexible pure graphite tape vertically placed into the die and then pressed in hydraulic press and the pressure is calculated on the basis of required density. As the tapes are placed vertically & the compression also is vertical in a closed die there are chances of crimping of tape on OD & ID of the ring which are normally mistaken as cracks. These are not cracks but crimping of tape and this crimping provides resiliency in the sealing ring which is most important for perfect sealing against pressure surge.

**STYLE INGRAF®300** is totally free from any kind of contamination. For compression resistance and retention of size & shape Style 300 is manufactured with accurate specific density suitable to the working condition. These packing rings are having high thermal and dimensional stability and extremely low gas/liquid permeability, very low thermal expansion and extremely high chemical resistance. These rings are having low co-efficient of friction (0.08 to 0.1 against steel) and hence, with continuous operation it polishes the stem/shaft and also non abrasive in nature.

**STYLE INGRAF®300** Flexible pure graphite rings adjusts to any irregularities under moderate pressure and has resistance to pressure surge and thermal shock. These packing rings are chemically inert and also fire safe.

**STYLE INGRAF®300** packing ring is having inherent characteristics of basic graphite and hence having high degree of flexibility, compatibility, conformity & resiliency. These rings expand radially to form perfect seal against the shaft and housing. Graphite is an extremely good thermal conductor & as such the packing dissipates heat away from the body leading to a longer life of the packing.

**STYLE INGRAF®300** is also manufactured for nuclear applications with slightly improved chemical properties. These packing's are stable even under exposure to high doses of nuclear radiation.

### Operational Parameters:

| PROPERTIES       |  |  |  |
|------------------|---|---|---|
| pH               | 0-14  |   |   |
| TEMPERATURE (°C) | -200 to +600  |   |   |
| PRESSURE (BAR)   | 150   | 250   | 300   |
| VELOCITY (m/s)   | ---   | ---   | ---   |
| SIZE             | ---   | ---   | ---   |

## Technical Parameters:

|                                    |                  |
|------------------------------------|------------------|
| Carbon Content                     | 99% to 99.9%     |
| Ash Content                        | 2% (max.)        |
| Leachable Chloride                 | 35ppm to 50 ppm  |
| Density                            | 1.4 – 1.8 gms/cc |
| Corrosion Inhibitor<br>(zinc dust) | 4% (max.)        |

## Service Media:

Super heated & Saturated steam, Hydrocarbon, Fuel oil, Lube oil, all non oxidizing liquids and gases, Dies and Chemicals but not recommended for use in aquarigia, Fuming nitric acid, Oleum and strong oxidizing media.

## Typical Applications:

Valves & Pumps

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All information and recommendations given in this technical data sheet are correct to the best of our knowledge. However, in view of the wide variety of application and operating conditions one cannot draw the final conclusion in all application cases regarding the behavior of compounds. The above information can only serve as a guideline.

### INMARCO FZC

P.O. Box 120284, Sharjah Airport International Free Zone (SAIF-Zone), Sharjah, UAE

Tel. No.: +971 6 5578378 Fax No.: +971 6 5578948

Email: [info@inmarco.ae](mailto:info@inmarco.ae) Web.: [www.inmarco.ae](http://www.inmarco.ae)