# PGT4 GR8622 ESP

## Composition

- **Middle rings:** expanded graphite rings **Planigraph**[ESP]
- **Top & Bottom rings: GR8622**[ESP] braided graphite rings

## Characteristics

**PGT4 GR8622**[ESP] is manufactured with modified **Planigraph**[ESP] graphite made according to strict guidelines. Maintaining the packing weight is essential in order to meet standards and minimize fugitive emissions in the long term.
The excellent sealing capabilities of **PGT4 GR8622**[ESP] and the reduced fugitive emissions are born from a completely brand-new approach.
This material is characterized by a reduced coefficient of friction and low permeability, better than those achievable with the current technology using lubricants, without compromising the chemical integrity of the material.

**PGT4 GR8622**[ESP] is a Low Emissions API std 622 3rd Edition and ISO 15848 BH C01/C02 approved graphite packing, providing a valid solution to reduce OEM stock seal types. It can be used for all Oil & Gas, Cyogenic, $H_2$ and most Chemical services, as well as steam.

## Applications

**PGT4 GR8622**[ESP] is a graphite stem packing seal designed for low-emission services in industrial valves. It is suitable for use with hydrocarbons, cryogenic, hydrogen, VOCs, VHAPs, non-oxidizing chemical compounds, and steam. **PGT4 GR8622**[ESP] is rated for up to 500 bar. It is designed to operate under all pressure conditions covered by classes 150 to 2500 lbs, thanks to its special wiper rings, GR8622[ESP] style (for extreme applications, such as those requiring API 5000 and API 10000 standards, please contact the Carrara Technical Department).

## Tech Data

| | P bar | lb/in2 | V m/s | fpm | pH | T°C | T°F |
|---|---|---|---|---|---|---|---|
| | 500 | 7500 | 2 | 400 | 0 ÷ 14 | -200 ÷ 450 / 650 | -328 ÷ 840 / 1200 |

- Never use the product at its maximum rated temperature and pressure simultaneously. Consult the manufacturer for further information.
- When used with weakly oxidizing agents or hot air, the temperature shall not exceed **450 °C**.
- When used with steam or non-oxidizing fluids, the temperature shall not exceed **650 °C**.
- Flexible graphite and carbon yarn shall not be used with oxidizing fluids.



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### APPROVALS

- API std 622 3rd Ed. FE 260°C (500°F)
- API std 622 3rd Ed. ANNEX C FE 400°C (750°F)
- ISO 15848 BH-C01/C02-400°C (750°F)
- Limited detrimental materials and Ash
- Weight Loss API std 622 3rd Ed., EN 14772 S.6.7, FSA-G-604-07 METHOD B
- TQ39 - 50.000 h Target Temperature 408°C
- Fire Test API 607, API 6FA, ISO 10497
- Corrosion Test RT and HT
- MESC 85/203 and 85/204
- H2 Compatible
- PTFE Free
- PFAS Free
- Wet Lubricant Free

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CARRARA GLOBAL SEALING SOLUTIONS

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