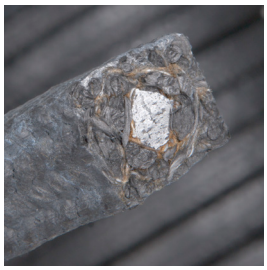
# Style 283R* - Soot Blower Packing

**SWEET SPOT & BEST USES:** Low RPM, High Temperature air or steam. Ideal for Soot Blowers and High Temperature Reciprocating applications.

## Pretwisted polyimidazole & carbon yarns with center of Style 396, support posts of carbon yarn.



### Construction

Style 283R is constructed with a pre-braided center of carbon yarn pretwisted with graphite exfoliant. The operational temperature of the center braid exceeds 850°F in oxidizing service (air) and 5000°F in non-oxidizing service (steam). Around this center is a braided single layer of Inconel wire, which aids in extraction of the whole sealing ring in one piece. This combination assures that little or no "consolidation" occurs from the degradation of materials. The center core is over braided with high temperature Polyimidazole textiles.

### Characteristics

- The outer braid maintains integrity during continuous use at 700°F and at short-term excursions up to 800°F. It serves to provide substantial and continuous strength against the shaft. This is an advantage over other sealing materials such as PTFE types that degrade and harden at the operational temperatures resulting in helical scoring of the shaft during tube run-out. The outer structure protection of the inner, pure core is the mechanical and thermal braid requirement for long term soot blower sealing success.

### Applications

Effectively seals soot blowers, including long retract systems.

### Reported Values of Performance

| Max. Temp. in F° | pH Range |
|---|---|
| 800° | 3 to12 |
| Non-Oxidizing Temp. F° | |
| 800° | |

*Patented Product

| PACKING STYLE | 283R* |
|---|---|
| **CHARACTERISTIC** | |
| Cutting Ease | 4 |
| Cut Cleanliness | 3 |
| Extrusion Resistance | 4 |
| Abrasion Resistance | 3 |
| Pounding Resistance | 4 |
| Heat Dissipation | 4 |
| Shaft Scoring | 4 |
| Installation Ease | 4 |
| Deformation Resistance | 4 |
| Ability to Conform | 5 |
| Resistance to Acids | 4 |
| Resistance to Caustics | 4 |
| Dimensional Stability | 5 |
| Removal Ease | 5 |

The chart above is provided as a guide in selecting the packing material that best meets your application needs. The listed ratings assume average conditions of rotating equipment, adequate flushes, and use of product within published parameters.

**1 is Marginal and 5 is Excellent**

| BASE MATERIAL | |
|---|---|
| Aramid | |
| Carbon | X |
| Fluoropolymer | |
| Glass | |
| Graphite | X |
| Graphite - Exfoliated | X |
| Polyimide | |
| Synthetic | X |
| **APPLICATION** | |
| Rotary & Reciprocating | |
| Valve & Reciprocating | |
| Soot Blowers | X |

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