



BACK-UP RINGS

FLEXIBLE CUSTOM DESIGNS

Whether you need a solid or scarf cut, rod, piston or another design to fit a certain gland specification, Greene, Tweed has the ability to handle any back-up ring request.

Because of our emphasis on custom engineering to meet customers' requests, we can design almost any type of back-up ring configuration to meet your needs.

Additionally, back-up rings can be manufactured in virtually any material that Greene, Tweed sells. This ensures the best compromise between price and performance for your specific application.

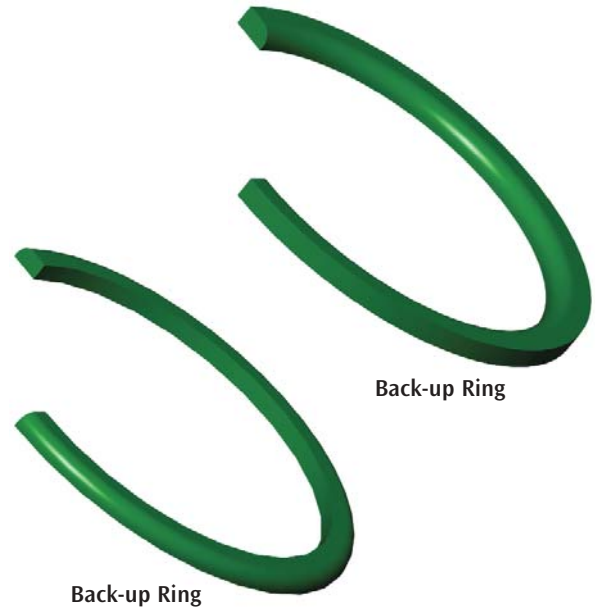
4330/4340 SERIES

Greene, Tweed's new 43 back-up ring series has been specifically designed for use in AS5857 gland configurations as anti-extrusion devices in conjunction with O-rings, packings or other elastomeric seal types. A variety of high-performance materials can be provided and specifically targeted to meet the customer's application requirements.

This series provides a part numbering system for back-up rings per the Aerospace Industry specifications AS5860 and AS5861, which are appropriate for use in static glands according to AS5857. The materials shall consist of filled PTFE (polytetrafluoroethylene). The AS5860 specification is for scarf-cut (split) back-up rings while AS5861 is the specification for solid-type rings.

4230/4240 SERIES

This series provides a part numbering system for back-up rings as per the Aerospace specifications AS5781 and AS5782. These specifications are based on virgin but pigmented PTFE materials. AS5781 is the specification for scarf-cut (split) back-up rings while AS5782 is the specification for solid-type rings. Either is appropriate for use in AS4716 glands.



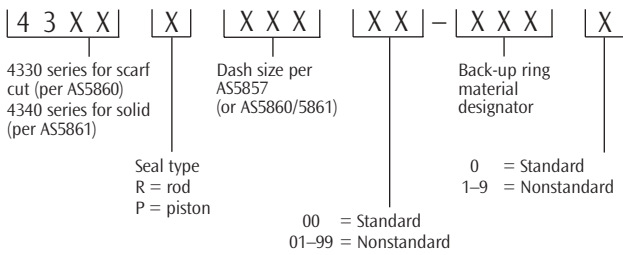
4270 SERIES

Greene, Tweed's 4270 series has been specifically designed for use in MIL-G-5514 gland configurations as anti-extrusion devices in conjunction with O-rings, packings or other elastomeric seal types. A variety of high-performance materials can be provided and specifically targeted to meet the customer's application requirements.

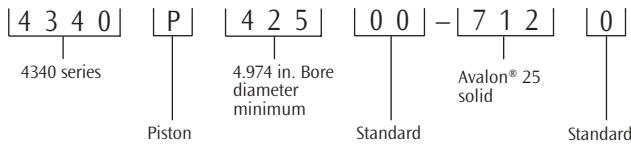
4330/4340 SERIES PART NUMBERING SYSTEM

The part numbering system requires the use of the material designator table found below. For nonstandard designs contact GT engineering.

4330/4340 Series Backups

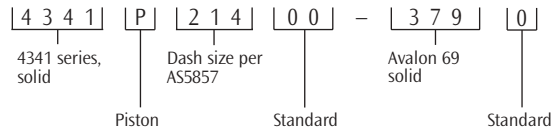


Part Numbering Example



Notes:

- 1) Green pigmented PTFE will be used for rod-type back-up rings (to material code 09 of AS5860/AS5861).
- 2) Brown pigmented PTFE will be used for piston-type back-up rings (to material code 09 of AS5860/AS5861).
- 3) Dark gray/black PTFE for applications over 5,000 psi (to material code 10 of AS5860/AS5861).
- 4) Greene, Tweed's part numbering system allows for the use of a variety of materials based on customer requirements. Simply substitute either the prefix codes for scarf cut and solid type (4331 and 4341 respectively) in the series designator location along with the appropriate material code per GTS-1202 in the scarf-cut or solid material designator location. See example below:



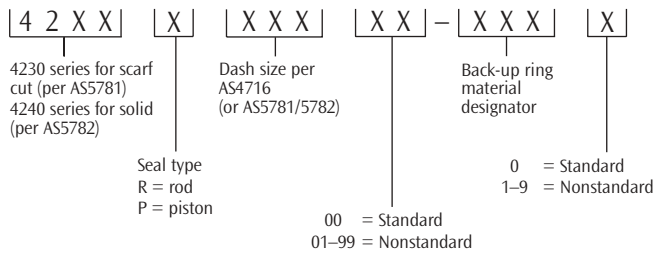
Material Designator Table—4330/4340 Series

BACK-UP MATERIAL		
SPLIT CODE (SCARF CUT)	SOLID CODE	MATERIAL
040	041	Avalon 06 (PTFE, Green Pigmented)
197	712	Avalon 25 (PTFE, Brown Pigmented)
413	706	Avalon 18 (PTFE, Carbon Fiber Filled)

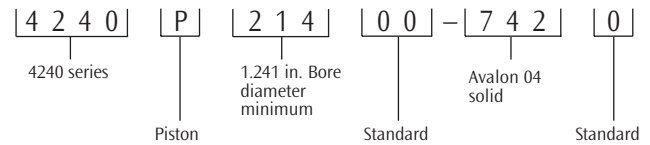
4230/4240 SERIES PART NUMBERING SYSTEM

The part numbering system requires the use of the material designator table found below. For nonstandard designs contact GT engineering.

4230/4240 Series Backups

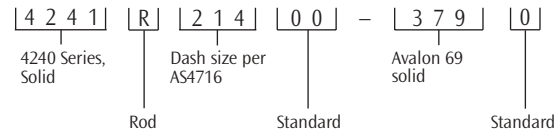


Part Numbering Example



Notes:

- 1) Blue pigmented PTFE will be used for rod-type back-up rings (to material code 09 of AS5781/5782).
- 2) Yellow pigmented PTFE will be used for piston-type back-up rings (to material code 09 of AS5781/5782).
- 3) Alternate materials are available per AS5781/5782. Please contact GT engineering for specific material codes.
- 4) Greene, Tweed's part numbering system allows for the use of a variety of materials beside AS5781/5782, based on customer requirements. Simply substitute either the prefix codes for scarf cut and solid type (4231 and 4241 respectively) in the series designator location along with the appropriate material code per GTS-1202 in the scarf-cut or solid material designator location. See example below:



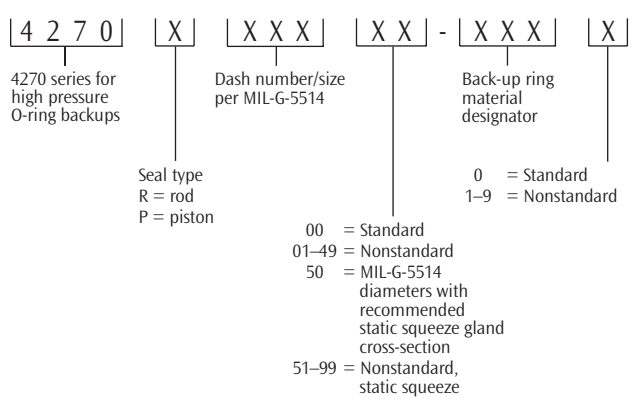
Material Designator Table—4230/4240 Series

BACK-UP MATERIAL		
SPLIT CODE (SCARF CUT)	SOLID CODE	MATERIAL
408	742	Avalon 04 (PTFE, Blue Pigmented)
409	743	Avalon 14 (PTFE, Yellow Pigmented)

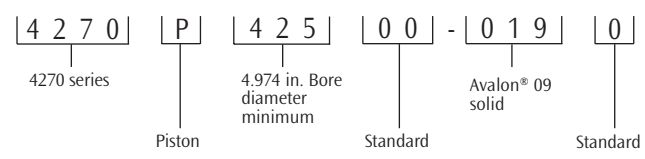
4270 SERIES PART NUMBERING SYSTEM

The part numbering system requires the use of the material designator table found below. For nonstandard designs contact GT engineering.

4270 Series Backups



Part Numbering Example



Material Designator Table—4270 Series

BACK-UP MATERIAL		
SPLIT CODE (SCARF CUT)	SOLID CODE	MATERIAL
001	301	Avalon 01
042	043	Avalon 07
016	019	Avalon 09
044	344	Avalon 44
079	379	Avalon 69
089	389	Avalon 89
006	018	NWR
045	046	Arlon® 1000
038	039	Arlon 1330

Contact your local Greene, Tweed representative for specific recommendations to suit higher performance requirements.



Contact Us

Greene, Tweed & Co. Tel: +1.215.256.9521
Aerospace Tel: +1.800.220.4733
Kulpsville, PA, USA Fax: +1.215.513.9411

Statements and recommendations in this publication are based on our experience and knowledge of typical applications of this product and shall not constitute a guarantee of performance nor modify or alter our standard warranty applicable to such products.