

BACK-UP RINGS FOR AEROSPACE

Freudenberg Sealing Technologies Back-up Rings improve the sealing capability of O-rings by supporting against extrusion. Our Back-up Rings can be used with a variety of seals. These retainers are available as solid elements, scarf cut, or as spiral rings. Back-up Rings are ideally suited to increase product life in high-pressure and extreme-temperature applications.

VALUES FOR THE CUSTOMER

- Expands the operating conditions of O-rings and other seals
- High material and product quality
- Compatible to all hydraulic fluids
- Wide selection of dimensions meeting standard gland designs

Materials Guide

Material	Designation	Color	Specification
Virgin PTFE Grade A	Quantum® PTFE Q78-1A	white	AMS-3678/1
Virgin PTFE Grade B	Quantum® PTFE Q78-1B	white	AMS-3678/1
Graphite filled PTFE	Quantum® PTFE Q78-2	dark gray	AMS-3678/2
Glass Fiber and Moly filled PTFE	Quantum® PTFE Q78-3	dark gray	AMS-3678/3
Glass Fiber filled PTFE	Quantum® PTFE Q78-4	white	AMS-3678/4
Pigment filled PTFE	Quantum® PTFE Q78-5	as specified	AMS-3678/5
Bronze filled PTFE	Quantum® PTFE Q78-6	brown	AMS-3678/6
Carbon and Graphite filled PTFE	Quantum® PTFE Q78-7	dark gray	AMS-3678/7
Carbon Fiber filled PTFE	Quantum® PTFE Q78-8	dark gray	AMS-3678/8
Pigment filled PTFE	Quantum® PTFE Q78-9 BL	blue	AMS-3678/9
	Quantum® PTFE Q78-9 BR	brown	
	Quantum® PTFE Q78-9 GR	green	
	Quantum® PTFE Q78-9 YE	yellow	
Carbon Fiber filled PTFE	Quantum® PTFE Q78-10	dark gray	AMS-3678/10

Other materials are available on request.

Cross Reference Guide For Back-up Rings

Aerospace Standards	Military Standards	Material Standard	Description	Cut Description
AS5781		AMS-3678	Single turn Back-up Ring, AS4716 glands	Scarf
AS5782		AMS-3678	Single turn Back-up Ring, AS4716 glands	Solid
AS5860		AMS-3678	Single turn Back-up Ring, AS5857 glands	Scarf
AS5861		AMS-3678	Single turn Back-up Ring, AS5857 glands	Solid
	MS28783	AMS-3678	Spiral turn Back-up Ring	Scarf
AS8791	M8791/1	AMS-3678	Single turn Back-up Ring	Scarf
	MS27595	AMS-3678	Back-up Ring	Solid
	MS28773	AMS-3678	Single turn Back-up Ring, Boss connection	Scarf
	MS28774	AMS-3678	Single turn Back-up Ring	Scarf
	MS28782	AMS-3678	Spiral turn Back-up Ring	Scarf
	MS9058	AMS-3678	Single turn Back-up Ring, Boss connection	Scarf

Installation and Assembly

Flawless functioning of the seals is conditional on proper installation.

The information contained herein is believed to be reliable, but no representation, guarantees or warranties of any kind are made to its accuracy or suitability for any purpose. The information presented herein is based on laboratory testing and does not necessarily indicate end product performance. Full scale testing and end product performance are the responsibility of the user.

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