



UTEX INDUSTRIES, INC.
Taking Sealing Technology Beyond Tomorrow
ISO 9001 Certified
www.utexind.com

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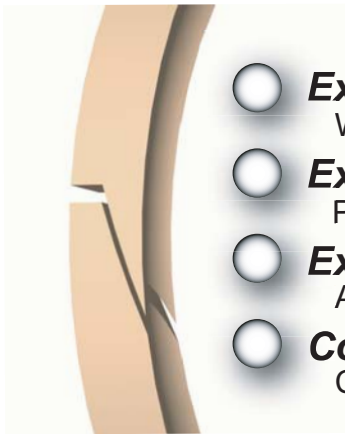
PRODUCT BULLETIN

ACCUSEAL MANUFACTURING DIVISION

832-358-0350 • Fax 832-358-0310

J-CUT BACK-UP RINGS

Patent Pending

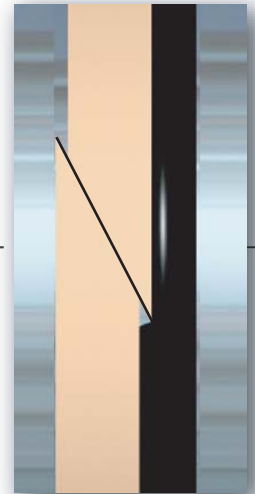


- Extreme Pressure**
Withstands pressures in excess of 30,000 psi
- Extreme Heat**
Prevents seal damage at temperatures up to 500°F and above 30,000 psi
- Extreme Environment**
Available in materials compatible with the harshest corrosive environments
- Convenient**
Can be used with standard o-ring groove designed for single or double back-ups

THE PROBLEM

Ordinary Scarf-Cut Back-Up Rings

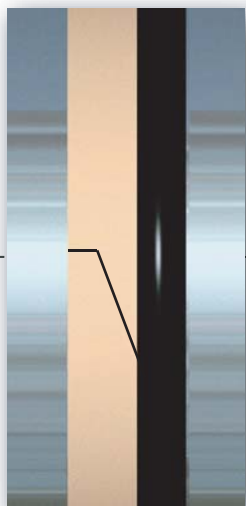
Split back-up rings are typically designed with an angled scarf-cut. The angled cut takes advantage of the pressure applied to the seal to close the extrusion gap through the split. Conventional scarf-cut rings suffer when the temperature is elevated since the thermal expansion of the ring causes the cut ends to overlap. An elevation in temperature of 375°F can cause a PTFE scarf-cut ring to overlap more than 1/16" for every inch of diameter. The conventional scarf-cut back-up ring can damage a seal at the overlapped area.



THE SOLUTION

AccuSeal's J-Cut Back-Up Ring (Patent Pending) How the J-Cut Works...

The J-Cut is angled where the seal contacts the back-up ring, taking advantage of the pressure from the seal to close the extrusion gap. The J-Cut's angle becomes parallel with the ring's axis so that overlap due to thermal expansion is restricted.



High Performance Elastomer Compounds

FEPM

7727	70 Durometer, High Molecular Weight
7728	80 Durometer, High Molecular Weight
7729	90 Durometer, High Molecular Weight
10522	90 Durometer, RGD Resistant

FKM

7507	70 Durometer, Low CS Co-Polymer
7508	80 Durometer, Low CS Co-Polymer
7509	90 Durometer, Low CS Co-Polymer
7577	70 Durometer, High Fluorine, Improved Chemical Resistance, Terpolymer
7578	80 Durometer, High Fluorine, Improved Chemical Resistance, Terpolymer
7579	90 Durometer, High Fluorine, Improved Chemical Resistance, Terpolymer
75795	95 Durometer, High Fluorine, Improved Chemical Resistance, Terpolymer

FFKM

7807	70 Durometer, Perfluoropolymer, General Purpose
7808	80 Durometer, Perfluoropolymer, General Purpose
7809	90 Durometer, Perfluoropolymer, General Purpose
7819	90 Durometer, Perfluoropolymer, RGD Resistant

FVMQ

9357	70 Durometer, Fluorosilicone, -70°F Low Temperature
9358	80 Durometer, Fluorosilicone, -70°F Low Temperature

SuperTex™ Thermoplastics for HPHT Service

SuperTex™

Utex #	AccuSeal #	
50320	AC-144	PEEK Unfilled
50323	AC-158	PEEK Glass Fiber Reinforced*
50325	AC-150	PEEK Carbon Fiber Reinforced*
50327	AC-162	PEEK Low Wear Bearing Grade*
50321	AC-126	PEEK-HT™, Unfilled
50328	AC-178	PEEK-HT™, Glass Fiber Reinforced*
50329	AC-179	PEEK-HT™, Carbon Fiber Reinforced*
50420	AC-190	PEEK/PBI Modified Polymer Unfilled
50421	AC-191	PEEK/PBI Glass Fiber Reinforced*
50423	AC-192	PEEK/PBI Carbon Fiber Reinforced*

*These materials are anisotropic and properties will vary with direction of measurement.
Other compounds available, please inquire.
SuperTex™ is a trademark of Utex Industries, Inc.
PEEK-HT™ is a trademark of Victrex plc.