



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

PRODUCT BULLETIN

UPB - 2C 07-01-95

HTCR™ O-RINGS

Utex HTCR™ is an elastomeric system based on Aflas® fluororubber, a copolymer of tetrafluoroethylene and propylene. HTCR™ is thermally stable for continuous use in temperatures up to 450° F and, depending on the specific application, has serviceability up to 550° F. HTCR™ has excellent resistance to a wide variety of chemicals in many different environments. Below are listed some of the more common chemicals and how HTCR™ performs in each. This chart should be used as a guideline only, with any specific questions being referred to our engineering department.

TYPICAL PROPERTIES OF STANDARD UTEX HTCR™ O-RING COMPOUNDS

	7727 75 Shore "A"	7729 90 Shore "A"
Ultimate Tensile, psi, ASTM D412	2900	2700
Ultimate Elongation, %, ASTM D412	240	80
E50 Modulus, PSI, ASTM D412	290	1900
Tear "C", PPI, ASTM D624	145	180
Compression Set, %, ASTM D395, Method "B"		
22 hours @ 392° F	20	17
70 hours @ 392° F	25	30

GENERAL CHEMICAL RESISTANCE COMPARISON OF HTCR™ O-RING COMPOUNDS (" + " is better performance than " - ")

	HTCR™	FKM
High Temperature Steam/Hot Water	+	-
Caustics/High pH Fluids	+	-
Inorganic Acids	+	-
Phosphate Ester Hydraulic Fluid	+	-
Alcohols	+	+
Hydrocarbon Based Hydraulic Fluid	+	-
Water Glycol Hydraulic Fluid	+	-
Glycol Based Brake Fluids	+	+
Mineral or Silicone Oil Brake Fluids	+	-
Engine Oils (New Types)	+	-
Automatic Transmission Fluid (New Types)	+	-
Engine Coolants with Rust Inhibitors	+	-
Power Steering Fluid (New Types)	+	-
Sour (H ₂ S) Oil and Gas	+	-
Amine Corrosion Inhibitors	-	+
Gasoline	+	-
EP Gear Lubricants	+	-
Gamma Ray Radiation	+	-
Polar Solvents	-	+
Non-Polar Solvents	+	-
Oxidizing Agents	-	+
High Aromatics (i.e., Toluene, Xylene)	+	-
Jet Turbine Oils	+	-
Pulp and Paper Liquors	+	-

HTCR™ is a Tradename of Utex Industries, Inc.
 Aflas® is a Registered Tradename of Asahi Glass Co., Ltd.