

IP33

Key Features

TechRes® IP33, with its excellent chemical resistance for a wide range of chemical process applications, is a perfluoroelastomer with enhanced mechanical properties for improved seal retention through low compression set. It exhibits excellent chemical resistance in a variety of chemical processes including acids, alkalis, ketones, esters, alcohols, and hot water. However, its use with hot amines should be limited. The maximum operating temperature is about 230°C, and fluid temperature should be considered separately.

Typical Physical properties

Color	Black
100% Modulus ^a , Mpa	10.3
Tensile Strength ^a , Mpa	17.2
Elongation at break ^a , %	181
Hardness Shore A ^b	75
Compression Set ^c , % (70 hr at 200°C)	23
Max. Continuous Service Temperature, °C	250

^a ASTM D412(dumbbell test specimens)

^b ASTM D2240(pellet test specimens)

^c ASTM D395B(AS568 #214 O-Ring test specimens)



PRODUCT INFORMATION

Features and Benefits

Low contamination / Chemical resistance / Excellent mechanical strength / Low compression set

Applications

Chamber lip seals / Bonded slit valve door seals / Bonded Gate valve door seals / Gas inlet seals
/ Slit Valve seals / Chemical Pump seals