

CHEMRAZ® SD517

FDA & USP CLASS VI COMPLIANT

Chemraz® SD517, a white-colored perfluoroelastomer, offers the broadest chemical resistance of any elastomer, combining the resilience and sealing force of an elastomer with chemical resistance and low extractables similar to PTFE. Providing the lowest temperature sealing properties of any perfluoroelastomer on the market (-22°F, -30°C), Chemraz SD517 is an ideal seal component for subambient mechanical seal applications and is the preferred alternative to encapsulated O-rings. With its white color, Chemraz SD517 meets the needs of applications requiring nonblack elastomers.

Chemraz SD517's many features make it well suited for critical applications and difficult seal replacement locations where maximizing MTBR (mean time between replacement) is paramount.

Chemraz components are available for use as O-rings, gaskets, sanitary seals and many other custom shapes.

This product is FDA and USP Class VI compliant making it an ideal product for elastomeric applications requiring regulatory compliance.

FEATURES & BENEFITS

- Special white material for applications where black impurities must be prevented
- FDA approved to FCN 000247
- 3-A® and FDA compliance meeting the highest purity standards

EXTRACTION DATA (in mg/in²)

Medium	FDA Limitations		Chemraz SD517	
	Total	Fluoride	Total	Fluoride
Distilled Water	≤ 0,2	≤ 0,03	0,011	< 0,0008
Ethanol, 50%	≤ 0,2	≤ 0,03	0,029	< 0,0008
n-Heptane	≤ 0,2	≤ 0,03	0,005	< 0,0008



TYPICAL PROPERTIES

Physical Properties	ASTM Method	Typical Value
Color		White
Specific Gravity	D297	2.22
Hardness, Shore A, Points	D2240	80
Mechanical		
Compression Set, 70 hours @ 400°F (204°C) @ 25% Deflection, %	D395	25
Modulus @ 50% Elongation, psi (MPa)	D1414	540 (3.7)
Modulus @ 100% Elongation, psi (MPa)	D1414	1,050 (7.3)
Tensile Strength @ Break, psi (MPa)	D1414	1,600 (11)
Thermal		
Service Temperature Range, °F (°C)		-22°F to 428°F (-30°C to 220°C)

APPLICATIONS

- Mechanical seals
- Valves
- Pumps
- Mixers
- Fermenters
- Biomedical equipment
- Couplings

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