

# FLUOROPRENE® XP

## THE PREMIUM UNIVERSAL MATERIAL FOR THE PROCESSING INDUSTRY

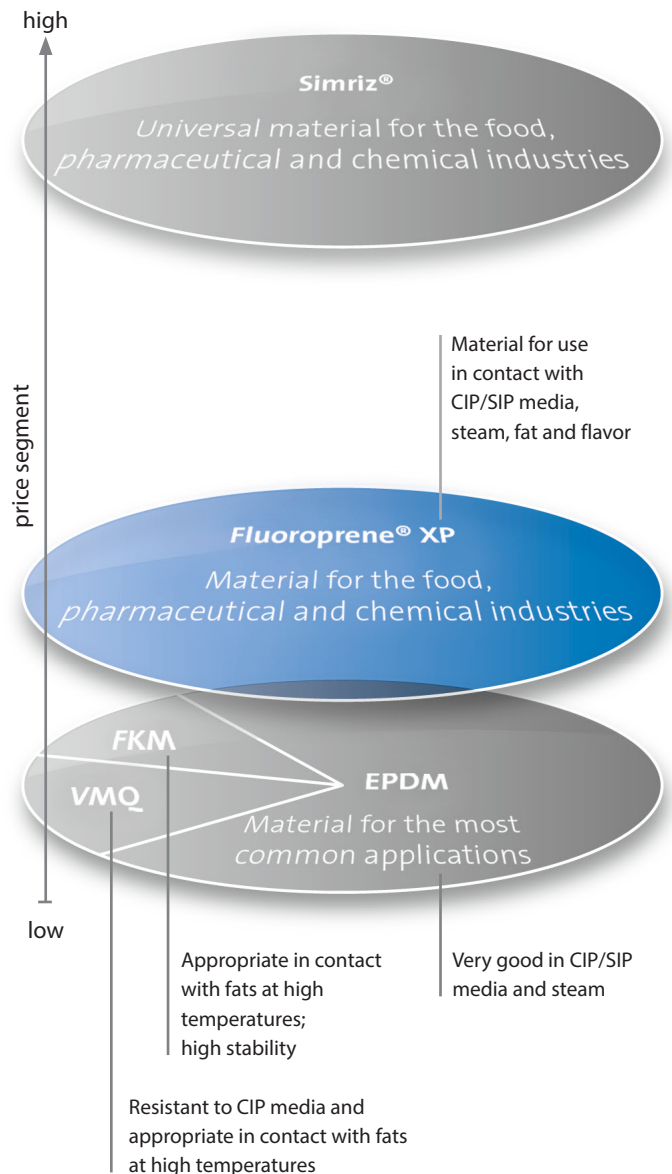
A wide variety of applications that are impressive right down the line: Fluoroprene® XP is the universal sealing material for steam sterilization, aggressive CIP/SIP media and high-fat concentrations.

Production processes in the food industry, in particular, have required the use of a wide range of different material designs. Based on the food's fat, flavor or acid concentration and the specifications of the CIP/SIP and steam sterilization processes, seals made of EPDM, VMQ or FKM are used. Fluoroprene XP makes this differentiation unnecessary: The material demonstrates a high degree of resistance in all the food industry's critical areas and large segments of the pharmaceutical and chemical industries. It also stands out for its long service life. An extractables study confirmed the pure characteristics of the Fluoroprene XP material family as evidenced by the very low TOC values and no detectable extracts.

The material has another advantage: low absorbability of flavors from product media and the corresponding prevention of flow back into product media. This helps to keep the flavor transfer with Fluoroprene XP as low as possible.

## HIGH-PERFORMANCE CAN BE VERY COST-EFFECTIVE

Fluoroprene XP offers high sealing performance for a broad array of applications at attractive prices. This makes it a cost-effective alternative for your sealing needs, with strong potential as a substitute for other materials.

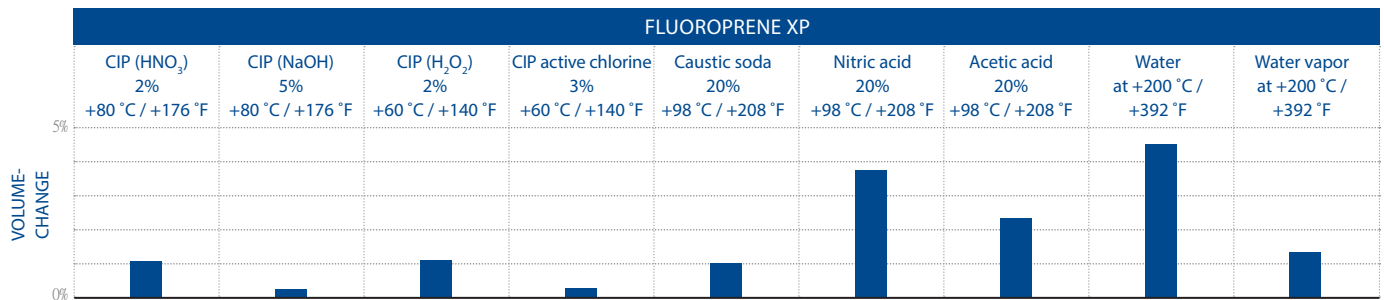


## FEATURES AND BENEFITS

### One-compound-per-plant-strategy

The unique media resistance of Fluoroprene XP ensures the complete safeguarding of your processes while maintaining high economic efficiency. The range of temperatures is between -15 °C and +200 °C (+5 °F until +392 °F). Storage tests of

75 Fluoroprene XP 40 over 168 hours provide a good example of its performance: They show that Fluoroprene performs well even in concentrated acids and bases at high temperatures, as well as in water and water vapor.



### Fluoroprene XP family

Freudenberg Sealing Technologies' Fluoroprene XP portfolio consists of five materials that are available in two hardness grades.

The appropriate compound is chosen based on the area of application and the need to bond to metal or fabric.

MATERIAL	COLOR	O-RING	DIAPHRAGM	MOLDED PART	CLAMP SEAL	ABILITY TO MACHINE	CONFORMITY/APPROVALS
75 Fluoroprene® XP 40	blue	x	x				<ul style="list-style-type: none"> <li>• EU (Reg.) 1935/2004</li> <li>• USP Class VI Ch. 88 – 121 °C / 250 °F</li> <li>• 3-A® Sanitary Standards</li> <li>• FDA 21 CFR 177.2600</li> </ul>
75 Fluoroprene® XP 41	light blue	x	x	x	x	x	<ul style="list-style-type: none"> <li>• EU (Reg.) 1935/2004</li> <li>• USP Ch. 87 (in vitro)</li> <li>• USP Class VI Ch. 88 – 121 °C / 250 °F</li> <li>• 3-A® Sanitary Standards</li> <li>• NSF 51</li> <li>• FDA 21 CFR 177.2600</li> </ul>
85 Fluoroprene® XP 42	blue			x			<ul style="list-style-type: none"> <li>• EU (Reg.) 1935/2004</li> <li>• FDA 21 CFR 177.2600</li> <li>• USP Ch. 87 (in vitro)</li> </ul>
85 Fluoroprene® XP 43	light blue			x		x	<ul style="list-style-type: none"> <li>• EU (Reg.) 1935/2004</li> <li>• USP Ch. 87 (in vitro)</li> <li>• USP Class VI Ch. 88 – 121 °C / 250 °F</li> <li>• 3-A® Sanitary Standards</li> <li>• FDA 21 CFR 177.2600</li> </ul>
75 Fluoroprene® XP 45 (optimized for rubber-metal bonding)	light blue			x			<ul style="list-style-type: none"> <li>• EU (Reg.) 1935/2004</li> <li>• 3-A® Sanitary Standards</li> <li>• FDA 21 CFR 177.2600</li> </ul>

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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