

# FCM (Food Contact Materials)

Suitability and restrictions of use



The below suitability and restrictions must be taken into consideration for products used in food and drug applications according to:

FDA CFR 21: 177.2600 / FDA CFR: 21:177.1550 / EU 1935/2004 / EU 2023/2006/ EU10/2011



**EPDM:** Good resistance to alcohol, ketones, mineral acids, and alkalis. Suited for CIP  
Not suited with oils and hydrocarbons and fatty foods.  
Not recommended for milk fat concentrations higher than 8%  
Temperature ranges from -40°C to +140°C

**FPM/FKM:** High resistance to commonly used chemicals in food, dairy and pharmaceutical applications.  
Not suited in ketones, esters, hot concentrated caustic solutions or steam.  
Temperature ranges from -20°C to +200°C

**VMQ/SIL:** Chemical resistant to commonly used chemicals in food, dairy and pharmaceutical applications.  
Good resistance to oxidizing agents, alkali solutions, animal, and vegetable fat.  
Not recommended in steam, strong acids and alkaline. Low mechanical properties  
Temperature ranges from -60°C to +200°C

**NBR:** Good resistance to mineral oil, animal, and vegetable fat.  
Not recommended for CIP  
Temperature ranges from -30°C to +100°C

**PTFE:** Universal chemical resistance.  
Caution to be taken for cold flow and overtightening  
Temperature ranges from -100°C to +250°C

**PTFE:** Universal chemical resistance.  
**(Envelope)** Composite gasket, outer PTFE shell and an inner FPM insert providing elasticity  
Temperature ranges from -20°C to +200°C

**KALREZ:** Outstanding universal chemical resistance.  
Suitable for CIP, SIP and WFI  
Temperature ranges from -20°C to +250°C

**PUR:** Good resistance to mineral oil, fat, and water. Not suited for SIP  
Temperature ranges from -20°C to +100°C

In accordance with FDA cfr21: 177.2600(g), good manufacturing practice, rubber articles intended for contact with food must be thoroughly cleaned prior to food contact

The results given in this document are obtained on standard specimen following standard test procedures and are not comparable to finished products due to differences in the products profile. It is the customer's responsibility to evaluate parts prior to use to assure that parts will perform satisfactorily in their application.