



# MARKEZ Z1426 MATERIAL SUMMARY

Introducing **Markez® Z1426**, a premier perfluoroelastomer (FFKM) engineered specifically for the uncompromising standards of the food, beverage, and pharmaceutical industries. Designed for high-purity environments, this compound provides a reliable barrier against aggressive cleaning agents, steam sterilization (SIP and CIP), and complex process fluids while ensuring absolute regulatory compliance.

### Key Features & Benefits:

- **Global Food Contact Safety:** Fully compliant with **FDA CFR 21 177.2600 (a-f)** and **177.2400 (d)** for repeated use in contact with food. It also meets the extraction and GMP portion of the rigorous **EU/EC 1935/2004** standards for food contact materials.
- **Medical & Biomedical Excellence:** Certified to **USP 88 Class VI** and has passed the **USP 87 Elution Test**, ensuring the highest level of biocompatibility and non-toxicity for sensitive life science applications.
- **Sanitary Design Standards:** Fully **3A Compliant (18-03 Class 1 C+D)**, making it ideal for dairy and hygienic processing where equipment must be easy to clean and resistant to bacterial growth.
- **High Purity Formulation:** Entirely **ADI (Animal Derived Ingredient) free**, eliminating risks of animal-based contamination and supporting strict vegan or religious manufacturing requirements.
- **Extreme Performance:** Engineered to withstand the harshest environments, Z1426 maintains its sealing integrity under high temperatures and exposure to over 1,800 chemicals, including acids, bases, and solvents.

Whether used in dynamic pump seals or static gaskets, **Markez® Z1426** offers a cost-effective, high-performance alternative to other premium FFKM brands, ensuring maximum uptime and safety in critical processing lines.

### Service Temp Range:

-10°C to 230°C (Excursions to 250°C)

### CHEMICAL RESISTANCE

CHEMICAL	RATING
Acetic acid (70%) at 70°C	<b>A</b>
Citric acid (50%) at 70°C	<b>A</b>
Nitric acid (50%) at 70°C	<b>A</b>
Isopropanol at 70°C	<b>A</b>
Acetone at 23°C	<b>A</b>
Potassium Hydroxide (50%) at 80°C	<b>A</b>
Sodium Hydroxide (50%) at 80°C	<b>A</b>
Ethylene Diamine (98%) at 23°C	<b>A</b>
Toluene at 50°C	<b>A</b>

### PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	TEST RESULTS
Hardness, Shore A (ASTM D2240-05)	<b>78</b>
Color	<b>Black</b>
Tensile Strength, MPa (psi) (ASTM D412-06a)	<b>16.21 (2,352)</b>
Ultimate Elongation, % (ASTM D412)	<b>153</b>
Compression Set, 70 hours @ 200 °C (ASTM D395, Method B), %	<b>33</b>
Compression Set, 70 hours @ 230 °C (ASTM D395, Method B), %	<b>58</b>
100% Modulus, MPa (psi)	<b>-30°C</b>
Specific Gravity, g/cm <sup>3</sup>	<b>2.37</b>

This information is accurate and reliable to the best of our knowledge. However, Marco Sealing Solutions makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It is the customer's responsibility to evaluate parts prior to use.