



Perfluoroelastomers for Exceptional Performance in the Most Challenging Conditions

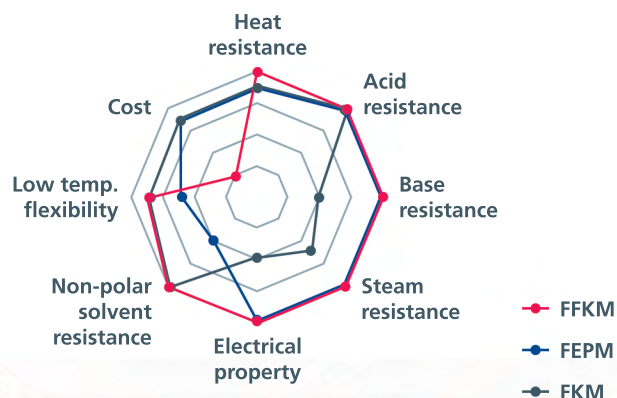
AFLAS FFKMs are perfluorinated elastomers that have the highest performance of any other elastomer material. They have outstanding heat and chemical resistance which can suitably be used for o-rings and seals in extremely harsh and aggressive environments. AFLAS FFKMs exhibit the ultimate in sealing performance in critical applications.

Advantages

- Chemical resistance
- Oil resistance
- Heat resistance
- High tensile strength

Applications

- Sealing parts for CPI
- Sealing parts for analytical instruments
- Instruments for semiconductor manufacturing
- Sealing parts for Oil & Gas



AFLAS FFKM Grade Range

* Compression Set data measured on 70hrs/200°C/25% Compression O-Ring

Grade	Service Temperature (°C)	Compression Set* (%)	Chemical Ind.	Oil and Gas	Semiconductor	Plasma	Comments
PM-1100	230	9.6	✓	✓			Lowest price point
PM-3000	250	6	✓	✓			Versatile; good compression set
PM-3500	250	17			✓	✓	High hardness with no filler
PM-5000	270	16			✓		Nitrile-curable, low sticking force
PM-5500	300	12			✓	✓	High temperature, high hardness with no filler
PM-1200	200	16	✓	✓			Low viscosity, low Tg (-9°C)
SF-5000	270	10			✓	✓	Surfactant-free, low sticking force, excellent Cool CS
SF-5500	300	13			✓	✓	Surfactant-free, achieves high hardness without fillers

AFLAS FFKM Grade Range

AGC has developed a range of different AFLAS FFKM products for various applications depending on the service conditions or other specific needs.

PM-1100 the introduction to FFKM

It can operate at 230°C continuously with occasional peaks to 250°C. Our most economical grade for general applications.

PM-3000 the capable, all-purpose grade

It has a continuous service temperature of 250°C with peak temperatures around 270°C. PM-3000 has improved compression set that can sustain pressure for longer periods meaning reduced maintenance.

PM-3500 the pure one for demanding applications

High purity grade that achieves a Shore A hardness of 70 without the need for fillers. It has plasma resistance for use in the etching process in semiconductor manufacturing.

PM-5000 a nitrile-curable grade with low sticking

It has outstanding thermal resistance at 270°. It is also a high purity grade with plasma resistance, but also can achieve low sticking force against metal and excellent Cool CS.

PM-5500 a high-temperature, nitrile-curable grade

It has extremely high temperature resistance at 300°C and higher with high purity and plasma resistance. Achieves Shore A hardness of 68 without the need for fillers.

PM-1200 a low viscosity, low Tg option

A new peroxide-curable grade has been developed to target low temperature applications down to -9°C. Upper service temperature reaches 200°C with excellent chemical resistance.

SF-5000 a surfactant-free and solvent-free grade

It has outstanding thermal resistance at 270°. It is also a high purity grade with plasma resistance, but also can achieve low sticking force against metal and excellent Cool CS.

SF-5500 a surfactant-free and solvent-free grade

It has extremely high temperature resistance at 300°C and higher with high purity and plasma resistance. Achieves Shore A hardness of 70 without the need for fillers.



AGC Chemicals Americas, Inc.
55 E. Uwchlan Avenue, Suite 201
Exton, PA 19341
United States of America

Telephone: +1 610-423-4300
Toll Free (US only): 800-424-7833
Fax: +1 610-423-4305

www.agcchem.com

Visit our website for compliance information and industry certifications.

AFLAS™ is a registered trademarks of AGC Inc.