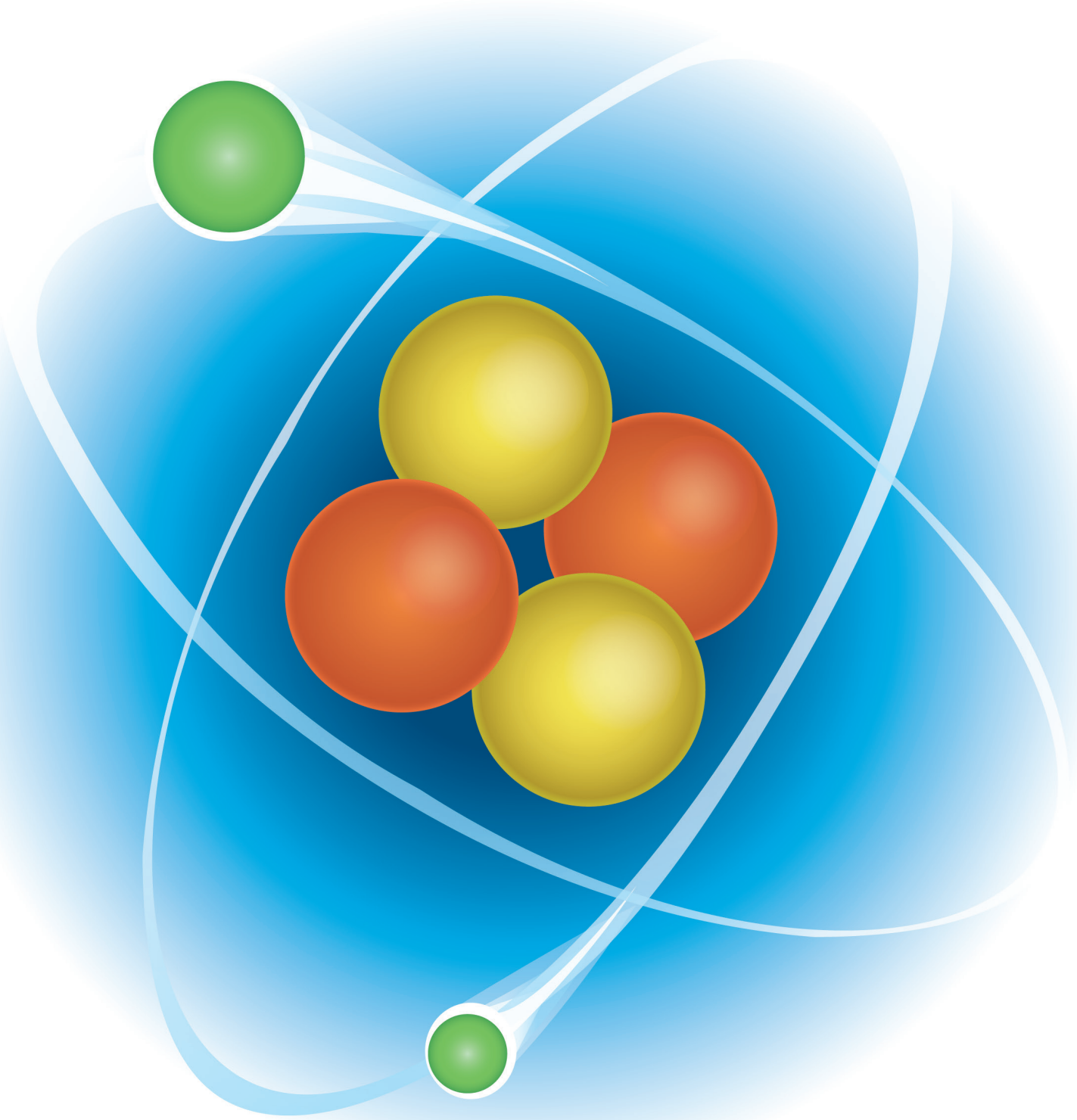
anyseals

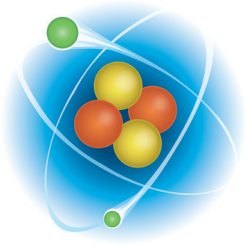


evolast® FFKM

the ultimate generation of perfluoroelastomers

where distributors go! – www.anyseals.eu – shop.anyseals.eu

evolast® – High Performance Elastomers



evolast® – FFKM

The development of **FFKM** has taken elastomer sealing technology to an unprecedented level of performance.

evolast® combines the excellent chemical and thermal properties of PTFE thermoplastics with the elasticity and superior compression set resistance of elastomers.

evolast® is used in the chemical-industry, in medicine and in the food industry. It is also used in oil and gas production, and in processing all of the above products, as well as in many other applications where seals are expected to perform to highly exacting standards.

Until now, the high production costs of **evolast®** meant it could only be used in these areas. **FFKM** can provide significant benefits in applications where other elastomers or thermoplastics are used today.

The longer service life and cost savings that an extended service period offers often compensate for much more than just the high initial outlay.

Not least because of this, **FFKM** is destined to make ever-increasing inroads into the sphere of technical applications, similar to how FKM did more than 40 years ago.

The O-rings made from **evolast® FFKM** range from small to large! Currently, some 10,000 different sizes are available from existing tools, the largest with diameters of up to 2000mm. Also parts made to customers specifications and drawings are being produced.

anyseals also supplies **evolast®** O-rings from stock with proven reliability. Information on different compounds, such as prices and delivery times, is available, as usual, from the **anyseals e-shop**.







Name	Material	Hardness Shore A	Colour	Temperature °C from	to	Remarks *approvals available
evolast® B894	FFKM	80	white	-20	+270	according to FDA, USP Class VI - 3A-Sanitary Standard
evolast® B895	FFKM	80	white	-15	+300	high temperature, according to FDA, USP Class VI - 3A-Sanitary Standard
evolast® N694	FFKM	60	black	-25	+270	standard applications
evolast® N775	FFKM	75	black	-15	+340	outstanding thermal stability, not suitable for steam/Amine
evolast® N794	**FFKM**	**70**	**black**	**-25**	**+270**	**standard applications, high temperature, *FDA 21 CFR 177.2400, *FDA 21 CFR 177.2600, *3A-Sanitary Standard, *USP Class VI**
evolast® B794	**FFKM**	**70**	**white**	**-20**	**+270**	***FDA 21 CFR 177.2400, *3A-Sanitary Standard, *BfR XXI, *USP Class VI, *DM 21/03/1973**
evolast® N7LT	FFKM	75	black	-46	+250	ultra low temperature
evolast® N894	**FFKM**	**75**	**black**	**-25**	**+275**	**standard applications, preferably stored, *FDA 21 CFR 177.2400, *FDA 21 CFR 177.2600**
evolast® N896	**FFKM**	**75**	**black**	**-15**	**+330**	**high temperature**
evolast® N8LT	FFKM	75	black	-46	+260	ultra low temperature
evolast® N8SR	FFKM	75	black	-15	+330	steam, hot water resistance
evolast® N993	FFKM	90	black	-20	+270	standard applications
evolast® N994	FFKM	90	black	-30	+260	low temperature
evolast® N9ED	FFKM	90	black	-15	+260	***AED NORSOK M710 – 5.33 mm, API6A (sour gas environment) – 10% H2S *NACE TM0187 (sour gas environment) – 5% H2S and – 20% H2S *Sour fluid test Arrhenius ISO 23936-2/NORSOK M710-3**
evolast® N9EX	FFKM	90	black	-15	+320	high temperature, ***AED Norsok M710**
evolast® N9LT	FFKM	90	black	-46	+250	low temperature, ***AED Norsok M710**, ***BS EN ISO 23936-2**
evolast® V7FD	FFKM	70	green	-15	+270	standard applications, acc. to FDA, USP Class VI - 3A-Sanitary Standard
evolast® V895	FFKM	80	green	-15	+310	high temperature

All evolast® compounds offer an outstanding chemical resistance performance.
In the "Remarks" column you can find directions / suggestions to the specific application and any approvals / certificates.

evolast® N894 (FFKM)

Material Information
evolast® N894
Material No. 2175-10307



Sealing Solutions
evolast® N894 is a high-performance FFKM material, specifically designed for the chemical process industry. **evolast® N894** is an excellent choice for use in aggressive chemical environments, providing a broad chemical resistance to different media such as acids, bases, water, steam, amines, solvent-based chemistries.
It is recommended as a multipurpose compound in all applications where fluid handling of different substances is required due to its excellent chemical resistance to a wide range of chemicals.

Features and benefits:
evolast® N894 provides excellent mechanical and sealing properties through a temperature service range from -15 °C to +230°C, withstanding peaks down to -25 °C and up to +275 °C.

- **FDA 21 CFR 177.2600 (e)+(f) tested, SGS report 7926099**
- **FDA 21 CFR 177.2400 (d) tested, SGS report 7926099**

Our **evolast® N894** is available for production of O-Rings (with diameters from 1 mm up to 2000 mm) and every shape of customer-designed sealing elements.

Applications
evolast® N894 parts are used in valves, pumps, mechanical seals, sprayers, compressors, reactors.

Typical Properties

Physical properties	test method	unit	typical value
Color			black
Specific Gravity	ASTM D1817	g/cm^3	2.00
Hardness	ASTM D2240	Shore A	75

Mechanical properties	test method	unit	typical value
Compression set (70 hours, 200 °C)	ASTM D395-B	%	18.5
Elongation at break	ASTM D412	%	145
Tensile strength	ASTM D412	MPa	18

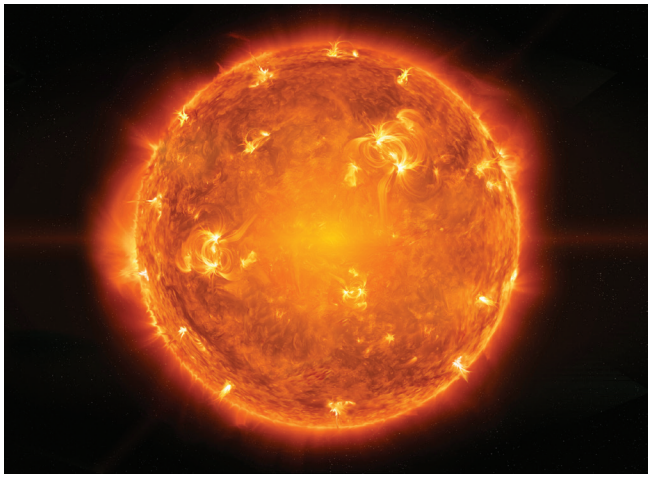
Low temperature performance	test method	unit	typical value
TR10	ASTM D1329	°C	-4

Thermal properties	test method	unit	typical value
Air ageing (70 hours @ 300 °C)	ASTM D573		
Delta Hardness		ShA points	-1.5
Delta Elongation at break		%	+20
Delta Tensile strength		%	-25
Service temperature range		°C	-25 to +275

Statements and recommendations in this publication are based on our experience and knowledge of typical applications of this product, and shall not constitute a guarantee of performance nor modify or alter our standard warranty applicable to such product.

evolast® N896 (FFKM)

Material Information
evolast® N896
Material No. 2175-10303



Sealing Solutions
evolast® N896 is a high-performance FFKM material, specifically designed to withstand a wide operational temperature range without compromising chemical resistance. **evolast® N896** is an excellent choice for use in aggressive chemical environments, when thermal resistance is also required, exhibiting outstanding high temperature stability and low compression-set.

Features and benefits:
evolast® N896 is recommended for extremely severe applications where difficult and costly maintenance strongly requires short process downtimes. It works over a broad temperature service range, going from -15 °C up to +330 °C.
evolast® N896 is available for production of O-rings (with diameters from 1 mm to 2000 mm) and every shape of customer-designed sealing element.

Applications
- Valves
- Pumps
- Mechanical seals
- Sprayers
- Compressors
- Reactors

Typical Properties

Physical properties	test method	unit	typical value
Color			black
Specific Gravity	ASTM D1817	g/cm^3	1.98
TR10	ASTM D1329	°C	-4
Hardness	ASTM D2240	Shore A	75

Mechanical properties	test method	unit	typical value
Tensile strength	ASTM D412	MPa	18
Elongation at break	ASTM D412	%	150
Compression set (70 hours, 200 °C)	ASTM D395 B	%	22
Compression set (70 hours, 300 °C)	ASTM D395 B	%	46

Thermal resistance	test method	unit	typical value
Air ageing (70 hours @ 300 °C)	ASTM D573		
Delta Hardness		ShA points	+2
Delta Elongation at break		%	+36
Delta Tensile strength		%	-33
Service temperature range		°C	-15 to +330

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evolast® B794 (FFKM)

Material Information

evolast® B794
Material No. 2170-10303



Applications

- Valves - Pumps
- Mechanical seals
- Sprayer
- Biomedical equipment
- Fermenters

Sealing Solutions

evolast® B794 was designed specifically for the chemical process industry. evolast® B794 provides superior chemical resistance and low contamination by extractable substances in pharmaceutical and food handling applications.

evolast® B794 is an excellent choice for use in aggressive chemicals, acids, bases, steam, amines, organic and inorganic media, methanol, TBA and MTBE, esters, ethers.

evolast® B794 has a temperature range from -20 °C to +270 °C.

evolast® B794 qualifications:

- High temperature capability
- Broad chemical resistance
- Excellent compression-set resistance
- **FDA 21 CFR 177.2400**
- **according to 3A-Sanitary Standard**
- **Reg. EC 1935/2004**
- **DM 21/03/1973**
- **BfR XXI**
- **USP Class VI**

Typical Properties

Physical properties	test method	unit	typical value
Color			white
Specific Gravity	ASTM D1817	g/cm^3	2.41
Hardness	ASTM D2240	Shore A	70

Mechanical properties	test method	unit	typical value
Compression set (70 hours, 200 °C)	ASTM D395	%	24
Elongation at break	ASTM D412	%	130
Tensile strength	ASTM D412	MPa	13

Thermal properties	test method	unit	typical value
Service temperature range		°C	-20 to +270

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evolast® N794 (FFKM)

Material Information

evolast® N794
Material No. 2170-10302



Applications

- Valves - Pumps
- Mechanical seals
- Sprayer
- Compressors
- Reactors

Sealing Solutions

evolast® N794, is designed specifically for the chemical process industry.

evolast® N794 is an excellent choice for use in aggressive chemicals, acids, bases, steam, amines, organic and inorganic media, methanol, TBA and MTBE, esters, ethers.

evolast® N794 has a temperature range from -25 °C to +270 °C.

evolast® N794 qualifications:

- High temperature capability
- **FDA 21 CFR 177.2600**
- **FDA 21 CFR 177.2400**
- **3A-Sanitary Standard**
- **USP Class VI**
- Broad chemical resistance
- Excellent compression-set resistance

Our **evolast® N794** is available for production of O-Rings (with diameters from 1 mm up to 2000 mm) and every shape of customer-designed seal.

Typical Properties

Physical properties	test method	unit	typical value
Color			black
Specific Gravity	ASTM D1817	g/cm^3	2.00
Hardness	ASTM D2240	Shore A	70

Mechanical properties	test method	unit	typical value
Compression set (70 hours, 200 °C)	ASTM D395-B	%	18
Elongation at break	ASTM D412	%	170
Tensile strength	ASTM D412	MPa	18
TR10	ASTM D1329	°C	-4

Thermal properties	test method	unit	typical value
Service temperature range		°C	-25 to +270

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