

Elastomer compounds in the process industry



In the different sectors of the process industries the use of sealing elements gets challenged by highest demands. On the one hand because of the chemical and mechanical stress and on the other hand because of many standards and approvals the elastomer must be compliant with.

Angst+Pfister offers solutions based on their own elastomer compounds that allow the production of nearly all moulded parts to meet those high requirements.

We have the material expertise, contact us for your development requirements.

Performance	Material	Properties	Approvals*
Highest chemical resistance for CIP/SIP and low friction	PERTEC® CIP FKM 75.501-04 Fluorine elastomer, peroxide cross-linked approx. 75 Shore A, blue	<ul style="list-style-type: none"> suitable for many «Cleaning in Place» (CIP) and «Sterilization in Place» (SIP) applications temperature resistance up to +200°C broad chemical resistance 	3-A, ADI free, BfR, EC 1935, FDA, French Arrete, GB 4806.11, LFGB, NSF 51, PAH Class 1, Phthalate free, SR, USP Class VI
Extreme friction and abrasion efficiency	PERTEC® NP FKM 70.501-04/ NP FKM 80.501-01 Fluorine elastomer, peroxide cross-linked, with nano particles approx. 70 or 80 Shore A, black	<ul style="list-style-type: none"> low coefficient of friction low permeability temperature resistance up to +220°C broad chemical resistance very pure elastomer material 	FDA
Highest purity under extreme conditions	PERTEC® UP FKM 70.501-07 Fluorine elastomer, peroxide cross-linked approx. 70 Shore A, black	<ul style="list-style-type: none"> compliant with a wide range of approvals very good chemical resistance high temperature resistance up to +200°C 	3-A, ADI free, BfR, EC 1935, DVGW W270, FDA, French Arrete, GB 4806.11, LFGB, NSF 51, PAH Category 1, Phthalate free, SR, UBA
Optimized chemical resistance based on FKM	PERTEC® ST FKM 75.501-02 Fluorine elastomer, peroxide cross-linked approx. 75 Shore A, black	<ul style="list-style-type: none"> temperature resistance up to +200°C increased fluorine content for enhanced chemical resistance suitable for steam applications 	ADI free, Phthalate free
Elasticity for highest stress requirements	PERTEC® UP VMQ 70.501-01 Silicone elastomer, peroxide cross-linked approx. 70 Shore A, black	<ul style="list-style-type: none"> compliant with a wide range of approvals very good chemical resistance large temperature range of -60°C – +200°C 	3-A, ADI free, BfR, D.M., DPR, DVGW EN549 + W270, EC 1935, FDA, French Arrete, GB 4806.11 + 4806.1 + 9685, GMC, KTW, LFGB, NSF 51, PAH Class 1, Phthalate free, SR, USP Class VI
Applicable almost everywhere due to more than 20 approvals	HITEC® EPDM 70.10-02 EPDM elastomer, peroxide cross-linked approx. 70 Shore A, black	<ul style="list-style-type: none"> suitable for many CIP/SIP applications especially for food and drinking water applications suitable for hot water and steam applications good ageing and ozone resistance complies with a large variety of approvals 	3-A, ACS, ADI free, AS/NZS, BfR, DVGW EN681 + W270 + W534, EC 1935, FDA, GB 4806.11, KIWA, NSF 51 + 61, ÖNORM, PAH Class 1, UBA, USP Class VI, WRAS
Unrivalled high-performance materials of Kalrez perfluor (FFKM)	KALREZ® 6621/6230 Perfluor elastomer, 6221 approx. 70 Shore A in white and 6230 approx. 75 Shore A in black	<ul style="list-style-type: none"> very good chemical resistance temperature resistance up to +260°C 	3-A, FDA, USP Class VI

* For more details please request the technical data sheets of our compounds. Contact us for support to find your specific solution for your individual requirements.

Our contact details

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