



PRODUCT CATALOG

产品目录

A leading supplier of fluoropolymer products in China

Shanghai FluoroChem Industry Co., Ltd.

上海鸿杰实业有限公司

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Company Profile

公司简介

Who We Are

Shanghai FluoroChem Industry Co., Ltd. is a Shanghai-based specialist dedicated to fluoropolymer and fluorochemical materials. Under the HAIFLON® brand, we develop, produce and supply a full range of fluoropolymer resins, fluoroelastomers, processing additives and electronic fluorinated fluids for customers worldwide.

What We Supply

Our product portfolio covers PTFE (suspension resins, dispersion fine powders, aqueous dispersions, micropowders and filled compounds), FEP, PVDF, PFA, ETFE and FEVE resins; FKM fluoroelastomers in gum, precompound and ready-to-vulcanize compound forms; polymer processing additives (PPA) for polyolefin extrusion; and electronic-grade fluorinated fluids for cleaning, cooling and heat-transfer applications.

Industries We Serve

Haiflon® materials are used across chemical processing, semiconductor and electronics, wire and cable, automotive, oil and gas, pharmaceutical, textile and food-contact industries — wherever extreme temperature, aggressive media, high purity or demanding mechanical performance are required.

How We Work

We support our customers from grade selection, sampling and laboratory evaluation through trial runs to stable mass production. With consistent quality management, flexible packaging and responsive technical service, we aim to be a long-term, reliable partner for every fluoropolymer application.

公司简介

上海鸿杰实业有限公司（Shanghai FluoroChem Industry Co., Ltd.）是一家专注于氟聚合物与氟化学品材料的上海企业。公司以 HAIFLON® 品牌开发、生产并供应全系列氟聚合物树脂、氟橡胶、加工助剂及电子氟化液，服务全球客户。

主营产品

产品涵盖 PTFE（悬浮树脂、分散细粉、水性乳液、微粉及填充混料）、FEP、PVDF、PFA、ETFE、FEVE 树脂；生胶、预混胶及混炼胶等全系列 FKM 氟橡胶；用于聚烯烃挤出的聚合物加工助剂（PPA）；以及用于清洗、冷却与传热领域的电子级氟化液。

应用领域

Haiflon® 材料广泛应用于化工防腐、半导体与电子、电线电缆、汽车、油气、医药、纺织及食品接触等行业——凡是对耐温、耐介质、高纯度或机械性能有苛刻要求的场合。

合作方式

我们从牌号选择、寄样与实验室评估，到中试直至稳定量产，为客户提供全程支持。凭借稳定的质量体系、灵活的包装方案和及时的技术服务，我们致力于成为客户氟聚合物应用领域长期可靠的合作伙伴。

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01

PTFE

聚四氟乙烯

Polytetrafluoroethylene (PTFE) is the cornerstone of the fluoropolymer industry, offering the lowest friction coefficient of any solid, near-universal chemical resistance and service temperatures from cryogenic up to 260 °C. The Haiflon® PTFE range covers suspension molding resins, dispersion fine powders, aqueous dispersions, micropowders and pre-compounded filled grades — one source for every major PTFE processing route.

聚四氟乙烯（PTFE）是氟聚合物产业的基石，具有固体材料中最低的摩擦系数、几乎普适的耐化学性和 -196 至 260 °C 的长期使用温度。Haiflon® PTFE 系列涵盖悬浮成型树脂、分散细粉、水性乳液、微粉及预混填充改性料，覆盖 PTFE 主要加工路线。

1.1 PTFE Suspension Resin

PTFE 悬浮树脂

Grade	Type	Tensile MPa	Elongation %	Bulk density g/L	D50 μ m	Std. density	Typical applications
SG-120	Fine-cut molding powder, low flow	≥ 35	≥ 320	300 – 550	20	2.13 – 2.19	Billets for skived film/sheet; gaskets, packings; base for compounds
SG-125M	Fine-cut molding powder, modified	≥ 35	≥ 400	325 – 475	15 – 30	2.13 – 2.19	Valve linings, pumps, diaphragm pumps; molded/lined components
SG-130	Fine-cut molding powder, low flow	≥ 37.5	≥ 320	300 – 550	30	2.13 – 2.19	High-strength billets; gaskets, packings; base for compounds
SG-140M	Fine-cut molding powder, modified, uniform	≥ 35	≥ 320	350 – 450	27 – 35	2.13 – 2.19	High-cleanliness/semiconductor parts; precision molding; compounds
SG-208	Semi-flow resin, medium particle size	≥ 25.5	≥ 250	500 $\pm$ 100	60 – 100	2.13 – 2.18	Big billets for skived plate/film; tubes, rods, plates
SG-218	Semi-flow resin, medium particle size	≥ 25.5	≥ 250	500 $\pm$ 100	100 – 260	2.13 – 2.18	Big billets for skived plate/film; tubes, rods, plates
SG-225	Semi-free flow resin	≥ 27.5	≥ 290	≥ 700	200 – 300	2.13 – 2.17	Large sheets; isostatic molding; bellows; skived film > 200 μ m
SG-330	Free flow resin, pelletized (granular)	≥ 22.5	≥ 275	750 $\pm$ 150	200 – 400	2.13 – 2.19	Automatic molding of small parts; rods, tubes, plates
SG-340M	Free flow resin, pelletized (granular), modified	≥ 25	≥ 300	750 $\pm$ 150	300 – 400	2.13 – 2.19	Automatic molding of rods, tubes, sheets; welded linings
SG-350	Free flow resin, pelletized (granular)	≥ 22.5	≥ 275	750 $\pm$ 150	401 – 600	2.13 – 2.19	Automatic molding; medium parts; blends with other resins
SG-375	Free flow resin, pelletized (granular)	≥ 22.5	≥ 275	750 $\pm$ 150	601 – 900	2.13 – 2.19	Large automatic moldings; engineering-plastic additive
SG-445	Presintered resin for ram extrusion	≥ 15.0	≥ 160	500 – 800	300 – 600	2.13 – 2.17	Rods, tubes and profiles by ram extrusion
SG-455	Presintered resin for ram extrusion	≥ 15.0	≥ 160	900 – 1100	400 – 700	2.13 – 2.17	High-output ram extrusion of rods and tubes

1.2 PTFE Fine Powder (Dispersion Polymerized)

PTFE 分散细粉

Grade	Type	Tensile MPa	Elongation %	Bulk g/L	D50 μm	Std. density	Typical applications
SF-628	seal tape (medium-high density), tube, rod, elastic band, fiber	33	420	495	615	2.18	Medium-high density unsintered seal tape (thread seal tape); Tubes, rods, elastic bands and tapes by paste extrusion; Fibers of various lengths
SF-628L	seal tape (medium-low density), short fiber	≥ 24	480 – 550	375 – 575	400 – 575	2.20	Medium-low density unsintered seal tape (thread seal tape); Tapes and ribbon products; Short fiber applications
SF-630	fiber (short fiber)	34	425	495	690	2.17	PTFE short fiber for yarn and textile applications; PTFE fiber seals and gaskets; Low-reduction-ratio paste extruded profiles
SF-631	fiber (long fiber)	35	385	485	645	2.16	PTFE long fiber for high-strength yarn and textiles; PTFE fiber rope, webbing and braided products; Low-reduction-ratio paste extruded profiles
SF-631U	fiber (reinforced long fiber)	32	344	445	740	2.14	Reinforced PTFE long fiber for high-strength yarn; PTFE fiber for demanding textile and sealing applications; Low-reduction-ratio paste extruded profiles
SF-640	general-purpose tubing & cable sheath	34	480	510	675	2.19	Thick-wall tube, rod and hose by paste extrusion; Cable sheath and general cable tubing (export grade); Corrosion-resistant lining and general extruded profiles
SF-6021	medium-high RR tubing & wire	31	440	465	690	2.19	Extruded tubing and hose (medium to high RR); Wire and cable insulation; Heat-shrinkable tubing and thin-wall profiles
SF-6022C	high RR thin-wall tube & wire	25	480	450	530	2.20	Thin-wall tubes by high-RR paste extrusion; Electric wire and cable coatings; Precision thin-wall profiles
SF-6931	coaxial cable	31	525	490	525	2.19	Coaxial cable insulation; Ultra-thin wire and cable insulation; High-frequency data and signal cable
SF-6932	premium coaxial cable	31	525	490	525	2.19	Microwave and RF coaxial cable insulation; High-frequency data and signal cable; Ultra-thin premium wire insulation
SF-6801	transparent thin-wall tube & wire	37	495	410	670	2.16	High-transparent thin-wall tubes; Wire and cable insulation; Medical and pharmaceutical tubing applications
SF-M1	microporous membrane	35	400	500	660	2.17	Biaxially stretched microporous membrane; Waterproof and breathable films; Filtration membranes and battery separator applications
SF-M2	microporous membrane	35	385	490	650	2.15	Biaxially stretched microporous membrane; Waterproof and breathable films; Filtration and separation membranes
SF-M3	microporous membrane	31	350	420	650	2.14	Biaxially stretched microporous membrane; High-porosity breathable films; Filtration and separation membranes

Grade	Type	Tensile MPa	Elongation %	Bulk g/L	D50 μm	Std. density	Typical applications
SF-628AD	anti-dripping additive	None	None	375 – 575	400 – 575	≥ 2.20	Anti-dripping additive for flame-retardant engineering plastics; Melt-strength additive for extrusion blow molding; Additive for wire, cable and electronic appliance compounds

1.3 PTFE Aqueous Dispersion

PTFE 水性乳液

Grade	Platform	D50 μm	pH	Surfactant %	Viscosity	Typical applications
SD-401	Coating	0.2 – 0.22	8.0 – 10.5	4.0 – 7.5	20 – 40	General non-stick coatings; anti-drip additive
SD-402	Coating	0.2 – 0.22	9.0 – 10.5	4.5 – 7.0	17 – 35	High-gloss, wear-resistant non-stick topcoats
SD-402M	Coating	0.2 – 0.22	8.0 – 10.5	4.0 – 7.5	15 – 35	Modified dual-use: non-stick coating + glass fabric
SD-403	Impregnation	0.2 – 0.22	8.0 – 10.0	4.0 – 7.5	20 – 40	Impregnation of glass fiber, yarn, packings
SD-404	Impregnation	0.2 – 0.22	8.0 – 10.0	5.0 – 7.0	18 – 35	Multi-layer impregnation; high gloss, crack resistant
SD-404H	Impregnation	0.2 – 0.22	8.0 – 10.0	4.5 – 7.0	15 – 35	Premium eco impregnation; repeated sinter cycles
SD-408	Customizable	0.2 – 0.22	8.0 – 10.0	2.0 – 4.0	10 – 75	Low-surfactant base for custom formulations; binder

1.4 PTFE Micropowder

PTFE 微粉

Grade	Type	D50 μm	D99 μm	Bulk g/L	Melting point $^{\circ}\text{C}$	Typical applications
HF-100	Suspension-based, sub-micron (D50 < 1.0 μm)	< 1.0	< 5.0	200 – 300	320 – 330	Premium coatings & inks; plastics, rubber, fabric
HF-101	Suspension-based, fine grade (D50 1.0 – 3.0 μm)	1.0 – 3.0	12.0	280 – 380	320 – 330	Plastics, rubber, fabric modification
HF-103	Suspension-based, ink & coating grade (D50 2.0 – 5.0 μm)	2.0 – 5.0	20.0	300 – 450	320 – 330	Printing inks and industrial coatings
HF-105	Suspension-based, general purpose (D50 3.0 – 7.0 μm)	3.0 – 7.0	25.0	300 – 500	320 – 330	Plastics, rubber, inks, coatings
HF-108	Suspension-based, medium grade (D50 6.0 – 10.0 μm)	6.0 – 10.0	25.0	300 – 550	320 – 330	Plastics, rubber, inks, coatings
HF-110	Suspension-based, engineering plastics grade (D50 8.0 – 12.0 μm)	8.0 – 12.0	28.0	350 – 550	320 – 330	Engineering plastics (PA, POM); rubber
HF-112	Suspension-based, coarse grade (D50 11.0 – 16.0 μm)	11.0 – 16.0	32.0	350 – 550	320 – 330	Plastics, rubber (coarse wear grade)
HF-117	Suspension-based, extra coarse grade (D50 15.1 – 20.0 μm)	15.1 – 20.0	50.0	350 – 550	320 – 330	Plastics, rubber, fabric (extra coarse)
HF-203	Dispersion-based, fine (D50 1.5 – 5.0 μm , BET 7 – 12 m^2/g)	1.5 – 5.0	15.0	200 – 350	320 – 330	Lubricants, waxes, oils, greases
HF-205	Dispersion-based, medium-fine (D50 3.0 – 8.0 μm , BET 7 – 12 m^2/g)	3.0 – 8.0	25.0	200 – 350	322 – 330	Lubricants, waxes, oils, greases
HF-208	Dispersion-based, medium (D50 5.1 – 10.0 μm , BET 5 – 12 m^2/g)	5.1 – 10.0	25.0	200 – 500	325 – 334	Lubricants, waxes, oils, greases
HF-210	Dispersion-based, coarse (D50 8.0 – 14.0 μm , BET 5 – 12 m^2/g)	8.0 – 14.0	35.0	400 – 600	325 – 334	Lubricants, waxes, oils, greases

1.5 PTFE Compounds (Filled Grades)

PTFE 填充混料 (SGC 系列)

Grade	Filler system	Typical applications
10GL	10% glass fibre	Bearings, bushings, seal rings, gaskets, valve seats
15GL	15% glass fibre	Bearings, bushings, seal rings, gaskets, valve seats
20GL	20% glass fibre	Bearings, bushings, seal rings, gaskets, valve seats
25GL	25% glass fibre	Bearings, bushings, seal rings, gaskets, valve seats
30GL	30% glass fibre	Bearings, bushings, seal rings, gaskets, valve seats
5CF	5% carbon fibre (PAN)	Bearings, bushings, seal rings, sliding parts, valve parts
10CF	10% carbon fibre (PAN)	Bearings, bushings, seal rings, sliding parts, valve parts
15CF	15% carbon fibre (PAN)	Bearings, bushings, seal rings, sliding parts, valve parts
15BR	15% bronze	Heavy-duty bearings, bushings, seal rings, piston rings
40BR	40% bronze	Heavy-duty bearings, bushings, seal rings, piston rings
60BR	60% bronze	Heavy-duty bearings, bushings, seal rings, piston rings
35BR5GR	35% bronze + 5% graphite	Heavy-duty bearings, bushings, seal rings, sliding parts
30BR10CF	30% bronze + 10% carbon fibre	Bearings, bushings, seal rings, valve parts
30BR10GR	30% bronze + 10% graphite	Heavy-duty bearings, bushings, seal rings, sliding parts
40BR5CAR	40% bronze + 5% carbon coke	Heavy-duty bearings, bushings, seal rings, piston rings
10GR	10% graphite	Bearings, piston rings, seal rings, sliding parts
15GR	15% graphite	Bearings, piston rings, seal rings, sliding parts
25GR	25% graphite	Bearings, piston rings, seal rings, sliding parts
15CAR	15% carbon coke	Bearings, bushings, seal rings, valve parts
20CAR	20% carbon coke	Bearings, bushings, seal rings, valve parts
25CAR	25% carbon coke	Bearings, bushings, seal rings, valve parts
13CAR2GR	13% carbon coke + 2% graphite	Bearings, piston rings, seal rings, sliding parts
23CAR2GR	23% carbon coke + 2% graphite	Bearings, piston rings, seal rings, sliding parts
5GL5M	5% glass fibre + 5% MoS2	Bearings, bushings, seal rings, gaskets, valve seats
15GL5M	15% glass fibre + 5% MoS2	Bearings, bushings, seal rings, gaskets, valve seats
15GL5GR	15% glass fibre + 5% graphite	Bearings, bushings, seal rings, gaskets, sliding parts
20GL5GR	20% glass fibre + 5% graphite	Bearings, bushings, seal rings, gaskets, sliding parts
20GL5M	20% glass fibre + 5% MoS2	Bearings, bushings, seal rings, gaskets, valve seats
20PEEK	20% PEEK	Bearings, bushings, seal rings, valve seats
10EK	10% Ekonol	Bearings, piston rings, seal rings, sliding parts
20EK	20% Ekonol	Bearings, piston rings, seal rings, sliding parts
15PI	15% polyimide	Bearings, seal rings, sliding parts
20PI	20% polyimide	Bearings, seal rings, sliding parts
15GL GREEN	15% glass fibre + pigment (RoHS)	Bearings, bushings, seal rings (RoHS pigment)
40BR GREEN	40% bronze + pigment (RoHS)	Heavy-duty bearings, bushings, seal rings (RoHS pigment)

02

FEP

氟化乙烯丙烯共聚物

Fluorinated ethylene propylene (FEP) combines PTFE-like chemical resistance with true melt-processability. Haiflon® FEP resins, powders and dispersions serve wire insulation, heat-shrink tubing, chemical linings, films and high-purity fluid handling.

氟化乙烯丙烯共聚物（FEP）兼具与 PTFE 相当的耐化学性和真正的热塑性加工性能。Haiflon® FEP 树脂、粉料与乳液广泛应用于电线电缆绝缘、热缩管、化工防腐衬里、薄膜及高纯流体输送。

Grade	Form	MFR g/10 min	Tensile MPa	Elongation %	Melting point °C	Typical applications
SQ-082	resin	0.8 – 2.0	≥ 27	≥ 320	265 ± 10	Heat-shrink tubing; pump/valve linings; wire insulation
SQ-204	resin	2.1 – 4.0	≥ 26	≥ 300	265 ± 10	Thick-wall wire & cable insulation; tubing
SQ-408	resin	4.1 – 8.0	≥ 24	≥ 300	265 ± 10	General wire & cable insulation; tubing
SQ-812	resin	8.1 – 12.0	≥ 24	≥ 300	265 ± 10	Thin-wall wire insulation; small-bore tubing
SQ-1216	resin	12.1 – 16.0	≥ 20	≥ 300	265 ± 10	High-speed wire extrusion; thin-wall insulation
SQ-1620	resin	16.1 – 20.0	≥ 20	≥ 300	265 ± 10	Very high-speed wire extrusion; injection molding
SQ-2024	resin	20.1 – 24.0	≥ 18	≥ 280	265 ± 10	Ultra-high-speed thin-wall extrusion; precision molding
SQ-2434	resin	24.1 – 34.0	≥ 16	≥ 250	265 ± 10	Ultra-fine wire high-speed coating; intricate molding
SQ-508M	resin	5.1 – 8	≥ 24	≥ 300	255 – 265	Stress-crack resistant thin-wall insulation; tubing
SQ-814M	resin	8.1 – 14	≥ 24	≥ 300	255 – 265	Stress-crack resistant thin-wall insulation; tubing
SQ-1824M	resin	18.1 – 24	≥ 20	≥ 280	255 – 265	High-speed, stress-crack resistant insulation; molding
SQ-2430M	resin	24.1 – 30	≥ 18	≥ 250	255 – 265	Ultra-high-speed thin-wall insulation; thin-wall molding
SQ-3650M	resin	36.1 – 50	≥ 18	≥ 250	255 – 265	Intricate thin-wall molding; ultra-fine wire coating
SQ-3036M	resin	30 – 36	≥ 18	≥ 250	255 – 265	Thin-wall high-speed insulation; high-flow molding
SQD-1	disp	0.8 – 8.0	–	–	–	Non-stick/anti-corrosion coatings; impregnation; bonding
HQ-104	powder	–	–	–	255 – 275	Lubricant/anti-blocking and wear additive
HQ-205	powder	5.1 – 8.0	–	–	250 – 265	Electrostatic non-stick/anti-corrosion coatings
HQ-215	powder	8.1 – 18.0	–	–	250 – 265	Electrostatic coatings; fast leveling non-stick surfaces
HQ-225	powder	19.1 – 24.0	–	–	250 – 265	Electrostatic coatings; complete fusion on complex shapes

03

PVDF

聚偏氟乙烯

Polyvinylidene fluoride (PVDF) offers an outstanding balance of mechanical strength, chemical resistance, purity and ease of processing. Haiflon® PVDF homo- and copolymer grades serve water treatment membranes and fittings, semiconductor components, wire and cable, lithium batteries and architectural coatings.

聚偏氟乙烯（PVDF）在机械强度、耐化学性、纯度与加工性之间实现了出色平衡。Haiflon® PVDF 均聚与共聚牌号用于水处理膜与管件、半导体部件、电线电缆、锂电池及建筑涂料。

Grade	Form	MFR g/10 min	Tensile MPa	Elongation %	Typical applications
FP-811	granule	10 – 25 (5 kg)	≥ 30	≥ 10	Pumps, valves, fittings, pall rings; semiconductor parts
FP-812	granule	5 – 10 (5 kg)	≥ 30	≥ 10	Tubes, rods, sheets; fittings, valves, linings
FP-813	granule	3 – 26 (5 kg)	≥ 30	≥ 10	Pumps, valves, pipes; films and fibers
FP-814	granule	2 – 8 (10 kg)	≥ 35	≥ 15	Fishing line, monofilaments; fine tubes and profiles
FP-815	granule	0.5 – 1.2 (5 kg)	≥ 30	≥ 10	Heavy-wall tubes, rods, sheets; linings
FP-816	powder	0 – 2.0 (5 kg)	–	–	Solvent-borne architectural fluorocarbon coatings
FP-817	powder	–	–	–	Li-ion cathode binder and separator coating
FP-818	powder	–	–	–	Water-treatment membranes (NIPS, curtain coating)
FP-819	powder	≥ 30 (5 kg)	–	–	Electrostatic anti-corrosion topcoats; rotolining
FP-8001	copolymer	10 – 25 (5 kg)	≥ 30	≥ 10	Valve/pump linings, fittings, pall rings
FP-8002	copolymer	4 – 10 (5 kg)	≥ 30	≥ 10	Cables; extruded tubes, sheets, rods
FP-8003	copolymer	4 – 6 (12.5 kg)	≥ 30	≥ 10	Separator coatings; heat-shrink tubing, cable

04

PFA

全氟烷氧基树脂

Perfluoroalkoxy (PFA) extends the limits of PTFE with melt-processability and the same near-universal chemical inertness. Haiflon® PFA granules, powders and dispersions are chosen for semiconductor wet-process equipment, high-purity tubing and fittings, and chemical processing components operating up to 260 °C.

全氟烷氧基树脂（PFA）在保持与 PTFE 相当的几乎普适耐化学性的同时具备熔融加工性能。Haiflon® PFA 粒料、粉料与乳液主要用于半导体湿制程设备、高纯管路与接头，以及最高 260 °C 工况下的化工部件。

Grade	Form	MFR g/10 min	Tensile MPa	Elongation %	Typical applications
PFA-083	Granules	0.8 – 3.0	≥ 32	≥ 300	Pipes, pump bodies, valve parts and connector components; Plates, tank linings and diaphragms; Bearing parts and other structural components requiring high stress-crack resistance
PFA-308	Granules	3.1 – 8.0	≥ 30	≥ 300	Pipes and tubes for chemical and semiconductor service; Wire insulation layers and multi-core cable sheaths; Films and various electronic components
PFA-812	Granules	8.1 – 12.0	≥ 28	≥ 300	Extrusion of cable insulation wire; Jacketing of multi-core cables; Thin-wall tubes and profiles
PFA-1220	Granules	12.1 – 20.0	≥ 28	≥ 300	Cable insulation and multi-core cable sheath extrusion at high line speeds; Injection molding of valves, fittings and complex-shaped articles; Tubes, films and linings
PFA-2025	Granules	20.1 – 25.0	≥ 26	≥ 350	Wire and cable insulation for aerospace and chemical industries; High-speed cable extrusion; Injection molding of thin-wall and precision parts
PFA-2532	Granules	25.1 – 32.0	≥ 26	≥ 350	High-speed extrusion of wire and cable insulation; Aerospace and chemical industry applications; Injection molding of complex, thin-wall precision parts
PFA-3250	Granules	32.1 – 50.0	≥ 20	≥ 300	Thin-wall wire and cable insulation at maximum line speeds; Micro-thin tubes and profiles; Precision injection molding of micro parts
PFA-053C	Granules	0.5 – 3.5	≥ 30	≥ 200	Antistatic linings for chemical vessels, pipes and valves; Conductive films and diaphragms; Heating cables and antistatic components for explosive atmospheres
PFA-103P	Powder	1.0 – 3.0	–	–	Electrostatic spray coating of valves, pipes, vessels and pump parts; Corrosion-resistant coatings for chemical processing equipment; Thin, pinhole-free coating layers with high build
PFA-308P	Powder	3.1 – 8.0	–	–	Electrostatic spray coating for complex shapes and thin films; Anticorrosion linings for semiconductor and chemical equipment; Smooth, low-friction coating surfaces
PFA-820P	Powder	8.1 – 20.0	–	–	High-build electrostatic spray coatings with fast fusing; Linings for tanks, pipes, valves and fittings; Coatings requiring fast processing cycles
PFA-2032P	Powder	20.1 – 32.0	–	–	High-flow powder coatings for thin, smooth coatings at high output; Rapid-coating cycles in fluidized bed and spray processes; Anticorrosion and non-stick coating systems

05

FKM

氟橡胶

Fluorocarbon elastomers (FKM) deliver exceptional resistance to heat, oils, fuels and aggressive fluids. Haiflon® FKM is available as gum polymer, curative-incorporated precompound and ready-to-vulcanize compound, for O-rings, seals, gaskets, valve and oil-system components.

氟碳弹性体（FKM）对热、油、燃料及侵蚀性介质具有卓越的耐受性。Haiflon® FKM 提供生胶、含硫化体系的预混胶及可直接硫化的混炼胶三种形态，用于 O 型圈、密封件、垫片、阀门及油路系统部件。

5.1 FKM Gum Polymer

FKM 生胶

Grade	Type	Mooney ML(1+10)	Density g/cm ³	Tensile MPa	Elongation %	Typical applications
HF2601A	Copolymer	10 – 29	1.78 – 1.83	11.0	150	Additive for high-Mooney rubber; O-rings; anti-extrusion parts
HF2601B	Copolymer	30 – 39	1.78 – 1.83	11.0	150	O-rings by compression, injection molding and transfer molding; extruded hose
HF2602	Copolymer	40 – 60	1.80 – 1.84	11.5	160	Calendered sheet; skeleton oil seals; extruded hose
HF2603A	Copolymer	61 – 79	1.80 – 1.84	11.5	160	Calendered sheet; skeleton oil seals; extruded hose
HF2603B	Copolymer	80 – 100	1.80 – 1.84	11.5	160	General parts by injection molding; oil seals
HF2604A	Copolymer	101 – 120	1.80 – 1.84	11.5	160	General parts by injection molding; oil seals
HF2604B	Copolymer	121 – 200	1.80 – 1.84	11.5	160	Compression molded parts; high-strength vulcanizates
HF-24601	Terpolymer	5 – 20	-	10	180	
HF-24602	Terpolymer	21 – 40	-	10	180	
HF-24603	Terpolymer	41 – 60	-	10	180	
HF-24604	Terpolymer	61 – 80	-	11	160	
HF-24605	Terpolymer	81 – 110	-	12	160	

5.2 FKM Precompound

FKM 预混胶

Grade	Cure family	Mooney	Density	Tensile MPa	Elongation %	C-set %	Typical applications
SF-BC201	Bisphenol	20	1.80	12.9	180	16	O-rings and gaskets (compression, transfer and injection molding)
SF-BC251	Bisphenol	25	1.80	13.5	200	17	O-rings and gaskets
SF-BC301	Bisphenol	30	1.80	14.9	206	14	O-rings and gaskets
SF-BC401	Bisphenol	39	1.80	15.8	226	13	O-rings and gaskets
SF-BC451	Bisphenol	45	1.81	15.0	200	16	O-rings and gaskets
SF-BC551	Bisphenol	56	1.81	15.3	180	12	O-rings and gaskets
SF-BC651	Bisphenol	65	1.81	16.2	190	14	O-rings and gaskets
SF-BT251	Bisphenol, high temp.	25	1.85	13.7	245	27	O-rings and gaskets
SF-BT401	Bisphenol, high temp.	38	1.85	14.6	230	25	O-rings and gaskets

Grade	Cure family	Mooney	Density	Tensile MPa	Elongation %	C-set %	Typical applications
SF-BT501	Bisphenol, high temp.	47	1.87	16.0	180	25	O-rings and gaskets
SF-BT651	Bisphenol, high temp.	65	1.85	16.5	210	27	O-rings and gaskets
SF-BT401HF	Bisphenol, high flow	40	1.90	14.1	208	30	O-rings and gaskets for aggressive chemicals and fuels
SF-BT501HF	Bisphenol, high flow	50	1.90	15.7	170	23	O-rings and gaskets for aggressive chemicals and fuels
SFM-BC201	Peroxide	20	1.80	12.5	240	19	Oil seals, O-rings and gaskets with metal inserts
SFM-BC251	Peroxide	25	1.80	14.5	230	18	Oil seals, O-rings and gaskets with metal inserts
SFM-BC251-E	Peroxide	25	1.80	14.2	300	32	Oil seals and complicated bonding products
SFM-BC351	Peroxide	35	1.80	14.5	240	22	Oil seals and complicated bonding products
SFM-BC351-E	Peroxide	35	1.80	13.8	270	27	Oil seals and complicated bonding products
SFM-BC401	Peroxide	42	1.81	14.3	230	18	Oil seals, O-rings and gaskets with metal inserts
SFM-BC451	Peroxide	45	1.81	14.3	280	20	Oil seals and complicated bonding products
SFM-BC651	Peroxide	65	1.81	15.5	320	33	Oil seals, complicated bonding or thick products
SFM-BT251	Peroxide, high temp.	25	1.85	14.6	260	27	General compression molding products with metal inserts
SFM-BT451	Peroxide, high temp.	45	1.85	15.3	190	23	General compression molding products
SFM-BT401	Peroxide, high temp.	40	1.85	14.6	280	33	Oil seals and complicated bonding products
SF-B55LT	Peroxide, low temp.	55	1.80	17.5	180	16	General compression molding products for low-temperature service
SF-B30LT	Peroxide, low temp.	27	1.80	15.6	200	20	Extruded and molded products for low-temperature service
SF-B25FL	Special fuel/oil	25	1.80	12.9	300	18	Automotive fuel line hoses
SF-B13FL	Special fuel/oil	13	1.83	12.7	310	22	Low-permeation fuel line hoses
SF-B15FL	Special fuel/oil	15	1.83	10.3	290	23	Low-permeation fuel line hoses bonded with THV
SF-B25FL-E	Special fuel/oil	25	1.87	13.9	330	21	Low-permeation fuel line hoses
SF-P27G	Press-ready gum	27	1.85	19.5	220	35	Extruded and molded products
SF-P40G	Press-ready gum	40	1.83	20.3	260	26	General compression molding products
SF-P26G	Press-ready gum	26	1.89	21.5	200	22	Extruded and molded products
SF-P25G	Press-ready gum	25	1.90	23.5	245	19	Extruded and molded products
SF-P-20TC-E	Post-cured	20	1.80	16.1	270	32	Turbocharger hoses (winding and extrusion)
SF-P-20TC	Post-cured	20	1.83	17.7	230	35	Turbocharger hoses (extrusion)
SF-P50LT	Peroxide, low temp.	50	1.82	19.3	240	26	General compression molding products for low-temperature service
SF-P30LT	Peroxide, low temp.	30	1.79	18.4	255	22	General compression molding products for low-temperature service
SF-P60LT	Peroxide, low temp.	60	1.80	21.0	210	18	General compression molding products for low-temperature service
SF-P20SW	Steam resistant	20	1.85	18.5	280	27	Smart watch straps and bands
SF-P30SW	Steam resistant	30	1.86	20.3	380	25	Smart watch straps and bands
SF-P20SW-E	Steam resistant	20	1.83	19.8	480	28	Smart watch straps and bands
SF-P23SW	Steam resistant	23	1.81	18.3	245	24	Smart watch straps and bands

5.3 FKM Compound (Ready-to-Vulcanize)

FKM 混炼胶

Grade	Family	Color	Hardness Shore A	Tensile MPa	Elongation %	TR10 °C	Key features
HFK-5061CL	O-ring (bisphenol)	Black	48	10.0	280	-18	Very low hardness; Good mold release; Hot tear resistance
HFK-5562C	O-ring (bisphenol)	Black	55	9.2	240	-18	Low hardness; Low compression set; Good mold release
HFK-6061C	O-ring (bisphenol)	Black	60	12.2	230	-17	Low compression set; Good mold release; For various O-rings and gaskets
HFK-7061C	O-ring (bisphenol)	Black	70	14.9	225	-17	Good mold release; For various O-rings and gaskets
HFK-7561C	O-ring (bisphenol)	Black	75	15.3	200	-17	Good mold release; For various O-rings and gaskets
HFK-8061C	O-ring (bisphenol)	Black	80	16.2	180	-16	Good mold release; For various O-rings and gaskets
HFK-9061C	O-ring (bisphenol)	Black	90	16.6	145	-15	High hardness; Good mold release
HFK-6001C	O-ring (bisphenol)	Brown	60	13.5	240	-18	Low compression set; Good mold release; For various O-rings and gaskets
HFK-7001C	O-ring (bisphenol)	Brown	70	15.1	230	-17	Good mold release; For various O-rings and gaskets
HFK-8001C	O-ring (bisphenol)	Brown	80	17.2	180	-16	Good mold release; For various O-rings and gaskets
HFK-6031C	O-ring (bisphenol)	Green	60	13.2	230	-18	Good mold release; For various O-rings and gaskets
HFK-7031C	O-ring (bisphenol)	Green	70	14.1	200	-17	Good mold release; For various O-rings and gaskets
HFK-7051C	O-ring (bisphenol)	Gray	70	15.7	190	-17	Good mold release; For various O-rings and gaskets
HFK-7002P	O-ring (bisphenol)	Brown	70	16.5	245	-17	Peroxide-cured FKM; Good gearbox oil resistance
HFK-5561T	O-ring (peroxide)	Black	55	11.3	250	-14	Good mold release; High temperature and oil resistance; For various O-rings and gaskets
HFK-6061T	O-ring (peroxide)	Black	60	15.3	230	-14	Good mold release; High temperature and oil resistance; For various O-rings and gaskets
HFK-7061T	O-ring (peroxide)	Black	70	18.7	220	-13	Good mold release; High temperature and oil resistance; For various O-rings and gaskets
HFK-8061T	O-ring (peroxide)	Black	80	19.3	180	-13	Good mold release; High temperature and oil resistance; For various O-rings and gaskets
HFK-6001T	O-ring (peroxide)	Brown	60	13.1	250	-14	Good mold release; High temperature and oil resistance; For various O-rings and gaskets
HFK-7101T	O-ring (peroxide)	Brown	70	16.4	200	-13	Good mold release; High temperature and oil resistance; For various O-rings and gaskets
HFK-7101P	O-ring (peroxide)	Brown	70	16.9	240	-21	Peroxide-cured FKM; Low temperature performance; Good gearbox oil resistance
HFK-7862C	Valve stem seal	Black	78	14.1	210	-16	Good mold flow; Metal bonding; For compression and injection molding
HFK-7802C	Valve stem seal	Brown	78	15.5	230	-16	Good mold flow; Metal bonding; For compression and injection molding
HFK-7852C	Valve stem seal	Gray	78	14.8	210	-16	Good mold flow; Metal bonding; For compression and injection molding
HFK-7832C	Valve stem seal	Green	78	15.2	220	-16	Good mold flow; Metal bonding; For compression and injection molding
HFK-7862T	Valve stem seal	Black	78	14.6	190	-13	Good mold flow; Metal bonding; For compression and injection molding; High temperature and oil resistance

Grade	Family	Color	Hardness Shore A	Tensile MPa	Elongation %	TR10 °C	Key features
HFK-7802T	Valve stem seal	Brown	78	14.9	190	-13	Good mold flow; Metal bonding; For compression and injection molding; High temperature and oil resistance
HFK-7852T	Valve stem seal	Gray	78	13.8	185	-13	Good mold flow; Metal bonding; For compression and injection molding; High temperature and oil resistance
HFK-7832T	Valve stem seal	Green	78	13.5	200	-13	Good mold flow; Metal bonding; For compression and injection molding; High temperature and oil resistance
HFK-7362C	Crankshaft seal	Black	73	14.3	220	-17	Good hot tear resistance; Good mold release; Metal bonding
HFK-7302C	Crankshaft seal	Brown	73	16.2	230	-17	Good hot tear resistance; Good mold release; Metal bonding
HFK-7332C	Crankshaft seal	Green	73	14.82	210	-17	Good hot tear resistance; Good mold release; Metal bonding
HFK-7262T	Crankshaft seal	Black	72	13.8	210	-14	Good hot tear resistance; Good mold release; Metal bonding; High temperature and oil resistance
HFK-7302T	Crankshaft seal	Brown	73	14.9	205	-14	Good hot tear resistance; Good mold release; Metal bonding; High temperature and oil resistance
HFK-7332T	Crankshaft seal	Green	73	14.1	200	-14	Good hot tear resistance; Good mold release; Metal bonding; High temperature and oil resistance
HFK-7502CG	Gearbox oil seal	Brown	75	17.2	250	-17	Peroxide-cured FKM; Good gearbox oil resistance
HFK-7502TG	Gearbox oil seal	Brown	75	17.5	260	-21	Peroxide-cured FKM; Good gearbox oil resistance; Low temperature resistance

06

PPA

聚合物加工助剂

Polymer processing additives (PPA) eliminate melt fracture and die buildup in polyolefin extrusion at doses of only tens to hundreds of ppm. The Haiflon® PPA range covers fluoropolymer-based powder and granule grades, FKM-based grades and a fluorine-free, silicone-free option, for film, pipe, cable, blow molding and masterbatch processes up to 350 °C.

聚合物加工助剂（PPA）仅需数十至数百 ppm 的添加量即可消除聚烯烃挤出中的熔体破裂与口模积料。Haiflon® PPA 系列涵盖氟聚合物基粉料与粒料、FKM 基牌号以及无氟无硅型产品，适用于最高 350 °C 的薄膜、管材、电缆、吹塑及色母粒加工。

Grade	Type	Bulk density g/cm ³	Particle size	Volatile %	Max temp. °C	Typical applications
PPA 9011	Fluoropolymer-based PPA, fine powder	0.6 – 0.8	< 10	< 1	–	Agriculture film, wire & cable, drawing, general polyolefin extrusion
PPA 9022	Fluoropolymer-based PPA, film grade	0.7	25	0.15	–	Blown / cast film, blow molding, general polyolefin extrusion
PPA 9023	Fluoropolymer-based PPA, film grade	0.72	25	0.12	–	Blown / cast film, blow molding, pipe, sheets, masterbatch
PPA 9028	Fluoropolymer-based PPA, high-loading grade	1.7	25	0.18	–	Polyolefin extrusion; PC, PET, ABS engineering resins
PPA 9028E	Fluoropolymer-based PPA, high-temperature	0.5 – 0.8	< 10	< 1	–	Film, blow molding, pipe, sheets, masterbatch; up to 330 °C
PPA 9028N	Fluoropolymer-based PPA, high-temperature	0.6 – 0.8	< 10	< 1	–	Film, blow molding, pipe, sheets, masterbatch
PPA 9028F	Fluoropolymer-based PPA, high active content	0.6 – 0.8	< 10	< 1	–	Wire & cable, film, sheet, masterbatch, pipe; up to ~330 °C
PPA 9028T	Fluoropolymer-based PPA, ultra-high-temperature	0.6 – 0.8	< 10	< 1	≤ 350	High-temperature extrusion up to 350 °C; polyolefins, PC, PET, ABS
PPA 9028V	Fluoropolymer-based PPA, ultra-high-temperature	0.6 – 0.8	< 10	< 1	≤ 350	Film, blow molding, pipe, sheets, masterbatch; up to 350 °C
PPA 9028S	Fluoropolymer-based PPA, 100 % active granules	0.8 – 1.0	–	< 1	–	Film, sheet, pipe, raffia; 100 % active granules
PPA 9100	Fluoropolymer-based PPA, high-temperature	0.5 – 0.8	< 10	< 1	–	Film, blow molding, pipe, sheets, masterbatch; up to 320 °C
PPA 8100	Fluorine-free & silicone-free	0.3 – 0.6	–	–	–	Polyolefins, PET, TPO, TPE, TPV, TPU; fluorine-free & silicone-free
PPA-20FK	FKM-based	0.6 – 1.0	–	–	–	Polyolefin extrusion; FKM content 15 – 25
PPA-30FK	FKM-based	0.6 – 1.0	–	–	–	Polyolefin extrusion; FKM content 25 – 35
PPA-40FK	FKM-based	0.6 – 1.0	–	–	–	Polyolefin extrusion; FKM content 35 – 45
PPA-50FK	FKM-based	0.6 – 1.0	–	–	–	Polyolefin extrusion; FKM content 45 – 55
PPA-90FK	FKM-based	0.6 – 1.0	–	–	–	Polyolefin extrusion; FKM content 90 – 100

07

ETFE

乙烯-四氟乙烯共聚物

Ethylene tetrafluoroethylene (ETFE) combines excellent impact resistance and mechanical toughness with outstanding chemical and weather resistance. Haiflon® ETFE pellets serve wire and cable insulation, chemical process equipment linings, films and photovoltaic backsheet applications.

乙烯-四氟乙烯共聚物（ETFE）兼具优异的抗冲击性、机械强度与卓越的耐化学、耐候性。Haiflon® ETFE 粒料用于电线电缆绝缘、化工设备防腐衬里、薄膜及光伏背板。

Grade	Form	MFR g/10 min	Tensile MPa	Elongation %	Melting point °C	Typical applications
HE-408	pellet	3.9 – 8.0	≥ 38	≥ 340	250	Thick-wall clad wires, films, tubes and sheets; Lining materials of valves, pumps and containers; Parts requiring outstanding stress-crack resistance
HE-816	pellet	8.1 – 16.0	≥ 38	≥ 340	250	Extrusion and injection molding processes; Films and sheathed wires and cables; Tubes, pipes and linings
HE-1826	pellet	18.0 – 26.0	≥ 36	≥ 340	250	Thin-wall wire insulation at high line speeds; Injection molded products with complex structures; Precision thin-wall tubes and profiles
HE-2640	pellet	26.1 – 40.0	≥ 36	≥ 340	250	Wires, cables, pipes by high-speed extrusion; Injection molding of thin-wall, intricate parts; Various electronic components
HE-2030P	powder	20.1 – 30.0	≥ 28	≥ 310	230	Rotational molding of tanks, vessels and hollow parts; Anti-corrosive linings for complex shapes; Large, seamless one-piece molded articles
HE-1426P	powder	14.0 – 26.0	≥ 32	≥ 320	230	Electrostatic coating of valves, pumps, vessels and fittings; Corrosion-resistant coatings for chemical equipment; Repair and protective coating systems
HE-T-1	pellet	15.0 – 40.0	≥ 35	≥ 300	260	Radiation-resistant wire and cable insulation; High-strength thin-wall wire for aerospace and defense; Applications requiring excellent electrical properties under load

08

FEVE

氟乙烯乙烯基醚树脂

Fluoroethylene vinyl ether (FEVE) resins bring long-term weatherability and gloss retention to solvent-borne coatings. Haiflon® FEVE enables durable architectural and industrial topcoats with service lives of decades.

氟乙烯-乙烯基醚共聚物（FEVE）树脂为溶剂型涂料带来长效耐候性与光泽保持率。Haiflon® FEVE 用于寿命可达数十年的建筑与工业长效防护面漆。

HAIFLON® FEVE Resin FV-702 — Powder Coating Grade

Solid fluorocarbon resin (FEVE) · thermosetting fluorocarbon powder resin

Haiflon® FEVE solid fluorocarbon resin FV-702 is a non-crystalline fluorocarbon polymer — a thermosetting fluorocarbon powder resin based on the copolymer of chlorotrifluoroethylene and vinyl ether. It offers excellent weather resistance and ageing resistance together with a high glass-transition temperature, making it a high-performance binder for fluorocarbon powder coatings.

- Solid fluorocarbon resin — non-crystalline FEVE polymer
- High Tg — suitable for powder coating applications
- Excellent weather resistance and ageing resistance
- Thermosetting — CTFE / vinyl ether copolymer with hydroxyl functionality for crosslinking

Item	Specification
Appearance	Light yellow flaky solid
Solid content (150 °C × 30 min), wt%	> 99
OH value, mg KOH/g (solid)	40 – 55
Glass transition temperature (Tg), °C	51 – 57

09

Electronic Fluorinated Fluid

电子氟化液

Haiflon® electronic fluorinated fluids are clear, low-toxicity, non-flammable liquids engineered for precision cleaning, vapor-phase reflow cooling, heat transfer and thermal shock testing in semiconductor and electronics manufacturing.

Haiflon® 电子氟化液是一类无色、低毒、不燃的精密液体，面向半导体与电子制造中的精密清洗、气相回流冷却、传热及冷热冲击测试等应用。

HAIFLON® Fluorinated Fluid FT-7200 — Ethyl Perfluorobutyl Ether

Electronic fluorinated fluid (C4F9OC2H5) · cleaning agent, solvent and heat-transfer medium

Haiflon® FT-7200 electronic fluorinated fluid is ethyl perfluorobutyl ether (C4F9OC2H5), a colourless, transparent liquid. With zero ozone depletion potential (ODP), low global warming potential (GWP), short atmospheric residence time, high chemical and thermal stability, low toxicity and low surface tension, it is an ideal replacement for ozone-depleting substances (ODS) and is widely used in medical, electronics, metals, precision instruments, optical lenses, communications and aerospace applications.

- Zero ODP and low GWP — environmentally responsible ODS replacement
- High chemical and thermal stability
- Non-flammable, low toxicity and safe in use
- Low surface tension — excellent wetting and penetration
- Colourless, transparent, high-purity liquid (> 99.5 %)

Item	Specification
Chemical name	Ethyl perfluorobutyl ether
Molecular formula	C4F9OC2H5
Molecular weight	264.09
Appearance	Colourless, transparent liquid
Purity, %	> 99.5
Boiling point, °C	76
Vapour pressure (25 °C), mmHg	109
Liquid density (25 °C), g/ml	1.430
Freezing point, °C	-138
Solubility of solvent in water, ppmw	< 20
Solubility of water in solvent, ppmw	74.4
Absolute viscosity (25 °C), cP	0.63
Specific heat (25 °C), J/g·°C	1.137
Surface tension, mN/m	13.6

HAIFLON® Fluorinated Fluid FT-7200A — Perfluoro(4-methyl-2-pentene)

Fluorinated fluid (C6F12) · precision cleaning, drying and process medium

Haiflon® FT-7200A is perfluoro(4-methyl-2-pentene) (C6F12), a free-flowing, colourless, odourless and clean liquid. With excellent thermal and chemical stability, it is environmentally safe and non-flammable, and is widely used in electronics, electric power, aviation, automotive and chemical industries. With zero ozone depletion potential (ODP) and a very low greenhouse effect compared with HFCs and PFCs, FT-7200A is an ideal long-term solution for companies promoting green manufacturing.

- Zero ODP, GWP 20 and short atmospheric lifetime (4.1 years) — ideal green substitute for HFCs / PFCs
- Excellent thermal and chemical stability; non-flammable (no flash point, no flammable range in air)
- Very low acute toxicity (4 h LC50, rat > 100 000 ppm); 8-hour exposure guideline (TWA) 750 ppm
- High dielectric strength (> 25 kV / 0.1 mm gap) — suitable for live electrical cleaning
- Composition: hexafluoropropylene dimer, purity > 99.5 %

Item	Specification
Chemical name	Perfluoro(4-methyl-2-pentene) (hexafluoropropylene dimer)
Molecular formula	C6F12
Molecular weight	300
Appearance	Clean, colourless liquid
Purity, %	> 99.5
Boiling point, °C	47
Freezing point, °C	-117
Liquid density (25 °C), g/ml	1.601
Solubility of solvent in water, ppmw	12
Solubility of water in solvent, ppmw	95
Kinematic viscosity, cP	0.3562
Dielectric strength (0.1 mm gap), kV	> 25
Specific heat, J/g·°C	1.279
Surface tension, mN/m	11.44



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A leading supplier of fluoropolymer products in China