



SRP SPECIALTY COMPOUNDS

PRECISION COMPOUNDS FOR SUPERIOR PERFORMANCE



ONE STOP SOLUTION FOR ALL SPECIALITY COMPOUNDS



High-Performance Elastomer Compounds for Critical Applications

Advanced materials, precise compounding, and reliable supply for demanding industries.



ABOUT US

SRP Specialty Compounds is the rubber compounding division of SRP – Synthetic Rubber Products, focused on developing high-performance elastomer compounds for specialized industrial applications. The company has developed approximately 17 compound types, including specialty and general-purpose formulations designed for demanding environments such as high temperatures, chemical exposure, oil and gas, aerospace, and medical applications.

WHY CHOOSE SRP SPECIALTY COMPOUNDS

Delivering high-performance elastomer solutions backed by decades of expertise, advanced manufacturing, and strict quality control. SRP combines advanced mixing technologies, precision-controlled manufacturing, and rigorous testing processes to ensure consistent compound performance across demanding industrial applications.

KEY STRENGTHS

20+ Years Expertise	17+ Elastomer Compounds	ISO Certified Quality	Advanced Mixing Technology
In-House Testing Labs	-60°C to +375°C Capability		Custom Formulation Support
Black & Color Compound		Reliable & Timely Delivery	

ISO CERTIFIED



SEGMENTS WE SERVE

Oil and Gas



Automobile



Hydraulic



Pneumatic



Power Sector



Medical



Aerospace



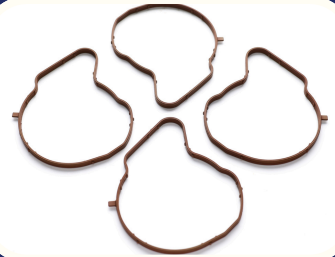
PRODUCTS WE SERVE



Hydraulic Seal



W Seal for Hydraulic FKM(viton)



Seals for Harley Davidson



Viton O Ring



Banded Seal Dowty Seal



Hydraulic Seal



PTFE Bronze Filled



FKM Oil Seal



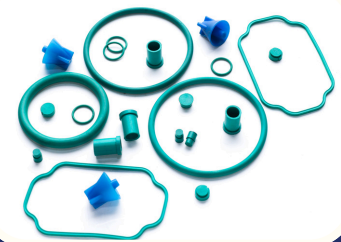
Oil Seals



Pneumatic Seals



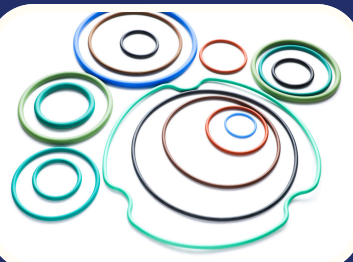
Viton Color O Rings



Sensor Parts



Food Grade Weather Silicone



High Performance O Rings

OUR COMPOUNDS WITH STANDARD COLORS

HNBR	
FKM (General) – bisphenol	
Silicone Rubber (VMQ)	
FVMQ (Fluorosilicone)	
FKM GLT (Great low temperature)	
FKM VPL (Very low temperature)	
FEPM AFLAS	
FFKM – Perfluoroelastomer	
FKM ETP – Enhanced Performance Fluorocarbon	
FKM Peroxide Cure	
ACM (PolyAcrylic)	
AEM (Vamac)	
ECO (Epichlorohydrin)	

WE ALSO OFFER CUSTOM COLOR OPTIONS BASED ON THE REQUIREMENT.

HNBR (Hydrogenated NBR)

RAW MATERIAL SUPPLIER

ARLANXEO Performance Elastomers ZEON

WE ALSO OFFER CUSTOM COLOR OPTIONS BASED ON THE REQUIREMENT.

HARDNESS RANGE (SHORE A): 50–95

Advantages:

- Excellent heat and oil resistance
- Superior ozone and weather resistance
- Improved mechanical strength
- Good abrasion resistance
- Suitable for dynamic and static sealing applications

Limitations:

- Higher cost than NBR
- Lower flexibility than silicone at very low temperatures
- Chemical resistance depends on formulation

MATERIAL TEST REPORT:

SL NO	PROPERTY	UNIT	ACTUAL VALUE	TEST STANDARD
1	SPECIFIC GRAVITY	-	1.2	ISO 2781
2	TENSILE STRENGTH	MPA	22	ISO 37
3	ELONGATION AT BRAKE	%	235	ISO 37
4	COMPRESSION SET	%	14	ISO 815-1METHOD A
5	VOLUME CHANGE (IRM 1)	%	-4.5	ISO 1817
6	VOLUME CHANGE (IRM 3)	%	+3.8	ISO 1817
7	MODULUS AT 100%	MPA	8	ISO 37

General FKM (Fluorocarbon)

RAW MATERIAL SUPPLIER



SOLVAY

WE ALSO OFFER CUSTOM COLOR OPTIONS BASED ON THE REQUIREMENT.

HARDNESS RANGE (SHORE A): 60–90

Advantages:

- Excellent chemical resistance
- High-temperature resistance up to 220 °C
- Excellent oil and fuel resistance
- Long service life
- Requires fewer compounding chemicals

Limitations:

- Expensive
- Poor resistance to hot tear
- High specific gravity
- Requires stainless steel molds
- Limited low-temperature flexibility

MATERIAL TEST REPORT:

SL NO	PROPERTY	UNIT	ACTUAL VALUE	TEST STANDARD
1	SPECIFIC GRAVITY	-	1.82	ISO 2781
2	TENSILE STRENGTH	MPA	11	ISO 37
3	ELONGATION AT BRAKE	%	220	ISO 37
4	COMPRESSION SET (70 hr at 200 °C)	%	16	ISO 815-1METHOD A
5	VOLUME CHANGE (IRM 1)	%	1.14	ISO 1817
6	VOLUME CHANGE (OIL 3)	%	3.2	ISO 1817
7	MODULUS AT 100%	MPA	5	ISO 37

Silicone Rubber (VMQ)

RAW MATERIAL SUPPLIER



WE ALSO OFFER CUSTOM COLOR OPTIONS BASED ON THE REQUIREMENT.

HARDNESS RANGE (SHORE A): 10–90

Advantages:

- Excellent low-temperature flexibility (up to -80°C for special grades).
- Wide operating temperature range (-80°C to $+200^{\circ}\text{C}$).
- Excellent electrical insulation properties.
- Excellent weather, ozone, UV, and heat resistance.
- Suitable for food-grade and medical applications (approved grades).
- Good compression set resistance, making it suitable for static sealing applications.

Limitations:

- Poor mechanical properties (lower tensile strength and abrasion resistance).
- Poor tear strength.
- Not suitable for dynamic applications.
- Post-curing is often required.
- Poor bonding to metals without special primers.
- Higher processing difficulty (mixing requires proper mill temperature control).

MATERIAL TEST REPORT:

SL NO	PROPERTY	UNIT	ACTUAL VALUE	TEST STANDARD
1	SPECIFIC GRAVITY	-	1.200	ISO 2781
2	TENSILE STRENGTH	MPA	9.5	ISO 37
3	ELONGATION AT BRAKE	%	430	ISO 37
4	COMPRESSION SET (70 hr at 200°C)	%	20	ISO 815-1METHOD A
5	Brittle Point	$^{\circ}\text{C}$	-60	ISO 1817
6	MODULUS AT 100%	MPA	2	ISO 37

FVMQ (Fluorosilicone)

RAW MATERIAL SUPPLIER

WACKER



WE ALSO OFFER CUSTOM COLOR OPTIONS BASED ON THE REQUIREMENT.

HARDNESS RANGE (SHORE A): 30–80

Advantages:

- Excellent fuel & gasoline resistance
- Wide temp range (–60 °C to +200 °C)
- Great low-temp flexibility
- Strong ozone & weather resistance
- Good compression set resistance
- good mechanical properties

Limitations:

- Expensive
- Moderate tensile and tear strength compared to hnbr and fkm
- Lower abrasion resistance than HNBR or FKM
- Not suitable for strong acids and ketones
- not suitable for dynamic appl

MATERIAL TEST REPORT:

SL NO	PROPERTY	UNIT	ACTUAL VALUE	TEST STANDARD
1	SPECIFIC GRAVITY	-	1.48	ISO 2781
2	TENSILE STRENGTH	MPA	7.58	ISO 37
3	ELONGATION AT BRAKE	%	225	ISO 37
4	COMPRESSION SET	%	22	ISO 815-1METHOD A
5	BRITTLE POINT	°C	-63	ISO 812
6	VOLUME SWELL IN FUEL (B)	%	13	ISO 1817
7	MODULUS AT 100%	MPA	4	ISO 37

FKM GLT

RAW MATERIAL SUPPLIER



WE ALSO OFFER CUSTOM COLOR OPTIONS BASED ON THE REQUIREMENT.

HARDNESS RANGE (SHORE A): 60–90

Advantages:

- Improved low-temperature flexibility (-35 to $+225^{\circ}\text{C}$)
- Excellent oil and fuel resistance
- High-temperature stability
- Good compression set

Limitations:

- Expensive
- Lower flexibility than VPL GRADE at extreme cold
- Limited resistance to strong polar solvents

MATERIAL TEST REPORT:

SL NO	PROPERTY	UNIT	ACTUAL VALUE	TEST STANDARD
1	SPECIFIC GRAVITY	-	1.80	ISO 2781
2	TENSILE STRENGTH	MPA	10.3	ISO 37
3	ELONGATION AT BRAKE	%	250	ISO 37
4	COMPRESSION SET	%	19	ISO815-1METHOD A
5	VOLUME CHANGE (OIL 1)	%	1.16	ISO 1817
6	VOLUME CHANGE (OIL 3)	%	3.5	ISO 1817
7	MODULUS AT 100%	MPA	3.6	ISO 37

FKM VPL

RAW MATERIAL SUPPLIER



SOLVAY

WE ALSO OFFER CUSTOM COLOR OPTIONS BASED ON THE REQUIREMENT.

HARDNESS RANGE (SHORE A): 60–90

Advantages:

- Excellent resistance to oils, fuels, and hydrocarbons
- Enhanced resistance to aggressive chemicals
- Temperature range (-40 to 220 °C)
- Good compression set
- Suitable for low temperature applications

Limitations:

- Expensive
- Higher specific gravity
- Limited resistance to strong polar solvents
- Limited raw material source

MATERIAL TEST REPORT:

SL NO	PROPERTY	UNIT	ACTUAL VALUE	TEST STANDARD
1	SPECIFIC GRAVITY	-	1.83	ISO 2781
2	TENSILE STRENGTH	MPA	13	ISO 37
3	ELONGATION AT BRAKE	%	220	ISO 37
4	COMPRESSION SET	%	11	ISO 815-1METHOD A
5	VOLUME CHANGE (OIL 1)	%	6	ISO 1817
6	VOLUME CHANGE (OIL 3)	%	9	ISO 1817
7	MODULUS AT 100%	MPA	6.9	ISO 37

FEPM AFLAS

RAW MATERIAL SUPPLIER



WE ALSO OFFER CUSTOM COLOR OPTIONS BASED ON THE REQUIREMENT.

HARDNESS RANGE (SHORE A): 60–95

Advantages:

- Excellent resistance to amines and alkaline chemicals
- Very good steam and hot water resistance
- temperature range (-3 to 220 °C)
- Good oil resistance
- Excellent aging resistance

Limitations:

- Limited low- temperature flexibility
- Expensive
- Limited raw material source

MATERIAL TEST REPORT:

SL NO	PROPERTY	UNIT	ACTUAL VALUE	TEST STANDARD
1	SPECIFIC GRAVITY	-	1.6	ISO 2781
2	TENSILE STRENGTH	MPA	18	ISO 37
3	ELONGATION AT BRAKE	%	220	ISO 37
4	COMPRESSION SET	%	14	ISO 815-1METHOD A
5	VOLUME CHANGE (STEAMRESISTANT)	%	+2	ISO 1817
6	VOLUME CHANGE (OIL 3)	%	11.8	ISO 1817
7	MODULUS AT 100%	MPA	6	ISO 37

FFKM - Perfluoroelastomer

RAW MATERIAL SUPPLIER



SOLVAY

WE ALSO OFFER CUSTOM COLOR OPTIONS BASED ON THE REQUIREMENT.

HARDNESS RANGE (SHORE A): 60–95

Advantages:

- Near-universal chemical resistance
- Temperature range (0 to 375 °C continuous)
- Excellent compression set at elevated temperatures
- Very low contamination and outgassing
- Suitable for ultra-severe chemical and high-temperature environments
- Suitable for extreme high temperature application.

Limitations:

- Extremely expensive (5 to 6 lakhs per kgs)
- Not suitable for low temperature application
- Moderate mechanical strength compared to specialty elastomers
- Requires controlled processing and post-curing

MATERIAL TEST REPORT:

SL NO	PROPERTY	UNIT	ACTUAL VALUE	TEST STANDARD
1	SPECIFIC GRAVITY	-	2.05	ISO 2781
2	TENSILE STRENGTH	MPA	17.0	ISO 37
3	ELONGATION AT BRAKE	%	200	ISO 37
4	COMPRESSION SET (O-RING)	%	23	ISO 815-1METHOD A
5	FUEL B CHANGE IN VOLUME	%	0.2	ISO 1817
6	HYDRAULIC FLUID RESISTENCE	%	4.6	ISO 1817
7	MODULUS AT 100%	MPA	6.9	ISO 37

FKM ETP - Enhanced Performance Fluorocarbon

RAW MATERIAL SUPPLIER



WE ALSO OFFER CUSTOM COLOR OPTIONS BASED ON THE REQUIREMENT.

HARDNESS RANGE (SHORE A): 60–95

Advantages:

- Excellent resistance to oils, fuels, and aggressive chemicals
- High-temperature resistance up to 220 °C
- Very good compression set and aging resistance
- Suitable for severe industrial and automotive applications

Limitations:

- Higher material cost
- Limited low-temperature flexibility (approx. -15 °C)
- Not suitable for strong polar solvents

MATERIAL TEST REPORT:

SL NO	PROPERTY	UNIT	ACTUAL VALUE	TEST STANDARD
1	SPECIFIC GRAVITY	-	1.82	ISO 2781
2	TENSILE STRENGTH	MPA	18	ISO 37
3	ELONGATION AT BRAKE	%	220	ISO 37
4	COMPRESSION SET (70 hr at 200 °C)	%	51	ISO 815-1 METHOD A
5	SOLVENT RESISTENT - MEK	%	21	ISO 1817
6	POTASSIUM HYDROXIDE IN WATER	%	2	ISO 1817
7	MODULUS AT 100%	MPA	7	ISO 37

FKM Peroxide Cure

RAW MATERIAL SUPPLIER



SOLVAY

WE ALSO OFFER CUSTOM COLOR OPTIONS BASED ON THE REQUIREMENT.

HARDNESS RANGE (SHORE A): 60–90

Advantages:

- Improved steam and hot water resistance
- Enhanced chemical resistance
- Temperature range (–17 to 220 °C continuous)
- Good compression set resistance
- Suitable for oil & gas applications

Limitations:

- Expensive
- Limited low-temperature flexibility
- Requires controlled processing
- Poor resistance to strong polar solvents

MATERIAL TEST REPORT:

SL NO	PROPERTY	UNIT	ACTUAL VALUE	TEST STANDARD
1	SPECIFIC GRAVITY	-	1.83	ISO 2781
2	TENSILE STRENGTH	MPA	23.4	ISO 37
3	ELONGATION AT BRAKE	%	320	ISO 37
4	COMPRESSION SET	%	15	ISO 815-1METHOD A
5	FUEL B	%	2	ISO 1817
6	VOLUME CHANGE (OIL 3)	%	0.5	ISO 1817
7	MODULUS AT 100%	MPA	4.93	ISO 37

ACM (Acrylic)

RAW MATERIAL SUPPLIER

ZEON

WE ALSO OFFER CUSTOM COLOR OPTIONS BASED ON THE REQUIREMENT.

HARDNESS RANGE (SHORE A): 50–90

Advantages:

- Excellent resistance to hot oils & ATF
- Very good heat resistance (up to 175 °C)
- Good ozone & weather resistance
- Good aging resistance
- Good high-temp compression set resistance

Limitations:

- Poor low-temperature flexibility
- Not suitable for fuel applications
- Moderate mechanical strength
- Higher cost than NBR

MATERIAL TEST REPORT:

SL NO	PROPERTY	UNIT	ACTUAL VALUE	TEST STANDARD
1	SPECIFIC GRAVITY	-	1.33	ISO 2781
2	TENSILE STRENGTH	MPA	12	ISO 37
3	ELONGATION AT BRAKE	%	210	ISO 37
4	COMPRESSION SET	%	12	ISO 815-1METHOD A
5	VOLUME CHANGE (IRM 1)	%	-2.9	ISO 1817
6	VOLUME CHANGE (OIL 3)	%	+10.1	ISO 1817
7	MODULUS AT 100%	MPA	6	ISO 37

AEM (Ethylene Acrylic)

RAW MATERIAL SUPPLIER

CELENES
by Sweden

WE ALSO OFFER CUSTOM COLOR OPTIONS BASED ON THE REQUIREMENT.

HARDNESS RANGE (SHORE A): 50–90

Advantages:

- Excellent heat resistance (up to 150 °C continuous)
- Very good oil resistance
- Good low-temperature flexibility (–40 °C)
- Excellent ozone and weather resistance
- Low compression set

Limitations:

- Poor resistance to fuels and aromatic hydrocarbons
- Limited resistance to polar solvents
- Higher cost than NBR and EPDM

MATERIAL TEST REPORT:

SL NO	PROPERTY	UNIT	ACTUAL VALUE	TEST STANDARD
1	SPECIFIC GRAVITY	–	1.24	ISO 2781
2	TENSILE STRENGTH	MPA	18	ISO 37
3	ELONGATION AT BRAKE	%	250	ISO 37
4	COMPRESSION SET	%	24	ISO 815-1METHOD A
5	VOLUME CHANGE (OIL 3)	%	26	ISO 1817
6	MODULUS AT 100%	MPA	3.3	ISO 37

ECO (Epichlorohydrin)

RAW MATERIAL SUPPLIER

ZEON

WE ALSO OFFER CUSTOM COLOR OPTIONS BASED ON THE REQUIREMENT.

HARDNESS RANGE (SHORE A): 40–90

Advantages:

- Excellent fuel, oil & hydrocarbon resistance
- Good heat resistance (~150 °C continuous)
- Excellent ozone & weather resistance
- Low gas permeability
- Good aliphatic hydrocarbon resistance
- Good aging stability

Limitations:

- Poor low-temperature flexibility (generally limited below -30 °C)
- Moderate mechanical strength compared to HNBR
- Limited resistance to aromatic solvents and strong chemicals
- Processing requires careful control

MATERIAL TEST REPORT:

SL NO	PROPERTY	UNIT	ACTUAL VALUE	TEST STANDARD
1	SPECIFIC GRAVITY	-	1.25	ISO 2781
2	TENSILE STRENGTH	MPA	13	ISO 37
3	ELONGATION AT BRAKE	%	400	ISO 37
4	COMPRESSION SET	%	25	ISO 815-1METHOD A
5	VOLUME CHANGE (OIL 1)	%	-6	ISO 1817
6	VOLUME CHANGE (OIL 3)	%	-2	ISO 1817
7	MODULUS AT 100%	MPA	6	ISO 37

RUBBER MIXING PROCESS - INPUT OUTPUT MATRIX

INPUT	PROCESS / ACTIVITY	OUTPUT
Requirements • Customer Specifications • Legal & Regulatory Standards	Raw Material Receiving & Verification Receiving, inspection, QAP verification	Approved Rubber Compound (CFL) As per specification
Raw Materials • Polymers • Chemicals • Additives	Material Storage FIFO, shelf-life and storage condition control	Test Reports Physical, chemical & performance
	Work Order & Material Indent	
Documents • QAP • Formula • BOM • SOP / WI	Raw Material Issue & Batch Weighing Formula verification	Hardness Button For traceability
	Rubber Mixing Master Batch / Final Batch	CFL Release Note Production approval
Planning • Production Plan • Work Orders	In-Process Inspection & Sample Approval	Production Records Batch, consumption & traceability
	Hardness Button Preparation & CFL Release	
Resources • Mixing Machines • Tools • Testing Equipment	Testing In-house / Outsourced	Compliance Records RoHS, REACH & Safety
	Change Management & Validation	
People • Operators • QC • R&D	Production Recording & Material Consumption	Complaint & CAPA Records Corrective actions
	Complaint Handling, CAPA & Compliance	
Regulatory • RoHS • REACH • Safety Requirements	5S, Maintenance & Skill Development	Improvement Records Training, maintenance & Kaizen
	Management Review & Continuous Improvement	

EQUIPMENT & INFRASTRUCTURE

SRP operates a well-equipped manufacturing facility designed for precision compounding and consistent production output.

- Intermix (Banbury Type) Mixer – 50 kg batch capacity for efficient and uniform mixing
- Kneader – for controlled intermediate processing
- Two-Roll Mills – Dedicated mill for both black and colour compounds
- Automatic Chemical Weighing System – 28 bin configuration for accurate dosing and formulation control
- Bale Cutter – for efficient polymer preparation

This integrated setup enables high process control, consistent dispersion, and flexibility in compound development.

INTERMIX MACHINE



AUTOMATIC CHEMICAL WEIGHING MACHINE



TWO-ROLL MILL



KNEADER



BALE CUTTER



TESTING & QUALITY ASSURANCE

SRP is supported by a comprehensive in-house laboratory to evaluate physical, mechanical, and chemical properties of elastomer compounds.



Material Testing Capabilities:

- Shore A Hardness Testing
- IRHD Testing
- Tensile Strength & Elongation (UTM)
- Moving Die Rheometer (MDR)
- Mooney Viscosity Testing
- Density Measurement (Densimeter)



Environmental & Performance Testing:

- Ozone Resistance Testing
- Thermal Ageing (Hot Air Oven)
- Compression Set Testing
- Thickness Measurement



Additional Laboratory Support:

- Muffle Furnace
- ASTM Oils for validation
- Desiccator for controlled conditions

Each batch undergoes rigorous testing to ensure compliance with performance requirements and application-specific standards.

SSC LABORATORY



SSC LAB EQUIPMENTS



Shore - A



Compression Fixtures



Ozone Analyzer



IRHD Testing Machine



Tensile Specimen Cutter



Densimeter



Hot Air Oven



Universal Testing Machine



Moving Die Rheometer



Mooney Viscometer



Muffle Furnace

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SI Group
The Substance Inside

struktol®


EVEREST
CHEMICALS

GALLERY



GALLERY



ORGANIZATION CHART



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High-Performance Elastomer Compounds for Critical Applications

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