

# Fluoroelastomer SF246 series

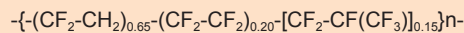
Superfluoron SF246 series is an improved version of traditional FKM terpolymer, which utilizes the molecular architecture technology, appropriate designed autoclave and advanced automatic after process flow line to achieve the stable polymer architecture, improved processibility and rheology, excellent mold flowability.

SF246 Series	Description		
Gum (without curative incorporated)			
Composition	Terpolymer of VDF,HFP and TFE		
Specific Gravity	1.85 ~ 1.86		
Mooney Viscosity ML1+10@121°C	SF24630	SF24640	SF24660
	30±2	40±2	60±2
Fluorine Content	68.0%~68.8%		
Moisture Content	<0.5%		
Thermolysis temperature	320~340 °C		

Note: How do we name our products?

"SF" is an abbreviation of Superfluoron™; the first three figures "246" denote the molecular compositions of the polymers-"2" indicates vinylidene fluoride,"4" means tetrafluoroethylene and "6" means hexafluoropropene; the last two figures show the typical Mooney viscosity of the elastomer.

## 1.Molecular Formula:



## 2.Features:

(1)Improved consistent rheology and less fluctuation of Mooney viscosity to achieve very stable quality;(2)Excellent resistance to high temperature: Working for long period under 275°C;Working for short period at 320°C.(3)Excellent resistance to chemical mediums.Good stability against organic liquid (oils, fuels, solvents, hydraulic oils etc),inorganic acids,highly-concentrated H<sub>2</sub>O<sub>2</sub> and other oxidants.Much better than other rubbers;(4)Not good resistance to L.M.W ketones,esters,some ethers,NH<sub>3</sub>,NH<sub>4</sub><sup>+</sup>,HF;(5)Good mechanical properties,insulating properties,corrosion resistance;(6)Common cold resistance;

## 3.Applications:

Widely used in aviation,automobile,petroleum,and chemical industries,etc.as sealing material,to resist high temperature,corrosion and oil (especially di-ester oil,silicate ester,etc.).Usually be made into sealing rings,sealing bowls,sealing tubes,and so on.Besides,used in fabric coating to resist heat and /or corrosion.

## 4.Safety / Toxicology:

General handling precautions include: (1)Store and use all fluoroelastomers only in well ventilated areas.(2)Do not smoke in areas contaminated with dust from fluoroelastomers.(3)Avoid eye contact.(4) After handling fluoroelastomers, wash any contacted skin with soap and water.Potential hazard, including evolution of toxic vapors,do exist during compounding or processing under high temperature conditions.

## 5.Packaging:

Our fluoroelastomer products wrapped in polyethylene,packed in cardboard buckets,net weight 25kg.Or net weight 500kg each pallet.

## 6.Storage:

Store in shady cool and dry place.Keep containers tightly closed to prevent moisture absorption and contamination.

## 7.Transportation:

Avoid heating,moistening and exposing to the sun in transportation.Non-hazardous chemicals.