

Fluorosint 135

Excellent Machinability, Stability and Performance Value

Product Overview

The Fluorosint product family is not the typical PTFE compound. Fluorosint is well known for its strong ability to outperform where all other compounds fall short. May it be the continuous use temperatures up to 260°C, improved deformation under load, lowest coefficient of friction or the low uniform coefficient of linear thermal expansion, Fluorosint performs.

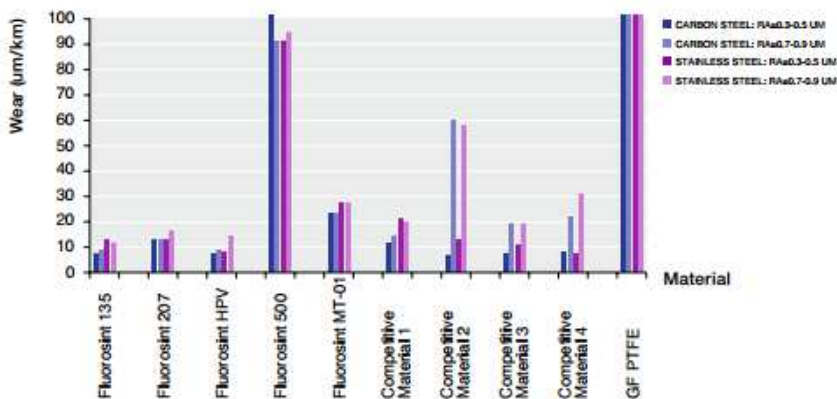
Our newest Fluorosint 135 offers high performance at an extremely competitive price position. A perfect blended material grade which provides extreme performance for seals, bearings and wear applications. The lowest coefficient of friction material along with low deformation provides superior performance over typical filled PTFE compounds.

Application Highlights

- ❖ Compressor, pump and valve wear parts
- ❖ Seals, bearings, thrust washers and seats
- ❖ Insulating blocks and fixtures in diagnostic equipment
- ❖ Compressor piston rings, rider bands and packing sets
- ❖ Lubricated or non-lube dry running applications
- ❖ Typical air, hydrogen, nitrogen, refrigerant gas service
- ❖ Service temperatures of 232°C
- ❖ Increased part life and improved performance
- ❖ Applications in chemical processing, medical, aerospace and food market

Application Highlights

- ❖ Lowest wear rate
- ❖ Lowest coefficient of friction
- ❖ Counter surface has little effect on performance
- ❖ Lowest coefficient of linear thermal expansion
- ❖ Very low deformation
- ❖ Extremely chemically inert
- ❖ No excessive run in period



Fluorosint 135

Properties (mm/ °C)	Fluorosint® Product Family					Competitive Materials Popular Grades		
	135	207	500	HPV	MT-01	1	2	3
Density (g/cm ³)	1.91	2.3	2.32	2.06	2.27	2.25	1.95	2.25
Tensile Strength (MPa)	9	10.3	7.6	10	14.5	13.8	13.8	13.8
Tensile Elongation (%)	3	50	30	90	40	135	180	175
Hardness	R80/D74	R50/D65	R55/D70	R44/D64	R74/D75	D60	D60	D60
CLTE (m/m.K)	50×10 ⁻⁶	85×10 ⁻⁶	50×10 ⁻⁶	75×10 ⁻⁶	60×10 ⁻⁶	88×10 ⁻⁶	97×10 ⁻⁶	85×10 ⁻⁶
COF (thrust washer testing)	0.12	0.17	0.19	0.18	0.18	0.25	0.2	0.3
Limiting PV (MPa m/s)	.5	.28	.28	.7	.16	.35	.26	.35
K-Factor (wear factor) (thrust washer testing)	32	85	600	38	200		47	45
Deformation under Load	1.98%	5.00%	1.10%	3.20%	0.20%	3.0%	3.0%	4.0%
FDA Compliant	No	Yes	No	Yes	No	No	No	Yes

Advantage
 Strong Advantage

Data taken from product brochures

This brochure and any data and specifications presented here or on our website shall provide promotional and general information about the Engineering Plastic Products (the «Products») shall serve as a preliminary guide. All data and descriptions relating to the Products are of a general informational nature only. Neither this brochure nor any data and specifications presented on our website shall create or be implied to create any legal or contractual obligation. This brochure and any data or specifications herein do not create expressly or by implication any legal, contractual or warranty obligation whatsoever. No warranty of any kind, either express or implied, is made as to the information contained in these pages, including, but not limited to, all warranties provided for by Louisiana law, any implied warranty of merchantability, of fitness for a particular purpose, and any warranty against hidden defects or redhibitory defects or vices. No information in this brochure creates any express or implied warranty that the goods described herein shall conform to any description herein. We sell the products described herein solely to sophisticated users and not to consumers, and we assume no responsibility that any goods described herein will be fit for any particular purpose for which a customer may determine to purchase such goods, except and to the sole extent otherwise provided in a separate written contract. Any illustration of the possible fields of application of the Products shall merely demonstrate the potential of these Products, but any such description does not constitute any kind of covenant or warranty whatsoever. Irrespective of any tests that we may have carried out with respect to any Product, We does not possess expertise in evaluating the suitability of its materials or Products for use in specific applications or products manufactured or offered by the customer respectively. It thus remains the customer's sole responsibility to test and assess the suitability and compatibility of our Products for its intended applications, processes and uses, and to choose those Products that according to its assessment meet the requirements applicable to the specific use of the finished product. The customer undertakes all liability in respect of the application, processing or use of the aforementioned information or product, or any consequence thereof, and shall verify its quality and other properties.