

Fillers Used in Fluon[®] Filled PTFE Compounds

Attributes	Glass Fiber	Molybdenum	Graphite Powder	Carbon Powder	Bronze Powder	Mineral	Ekonal [®] or Polyester	PPS	Carbon Fiber	Polyimide
Wear Resistance	X	X	X	X	X	X	X	X	X	X
Creep Resistance	X			X		X		X		
Compressive Strength (DUL)	X			X	X	X			X	
Chemical/Electrical Inertness	X					X	X	X		X
Heat Dissipation				X	X					
Low Permeability				X						
Lubricity		X	X							X
Low Coefficient of Friction		X	X				X			X
Reduced Torque on Start-up		X					X			
Thermal Conductivity				X	X					
FDA Compliant						X				
Thermal/Dimensional Stability							X	X		
Deformation/Extrusion Resistance					X			X		
Improved Abrasion Properties	X			X		X	X	X		X
High Temperature Resistance							X			X
Can Be Combined with Other Fillers for Improved Physical Properties	X	X	X	X	X			X	X	X
Applications	Glass Fiber	Molybdenum	Graphite Powder	Carbon Powder	Bronze Powder	Mineral	Ekonal [®] or Polyester	PPS	Carbon Fiber	Polyimide
Self-lubricating Bearings	X	X			X		X			X
Gaskets (Static-dissipating, Other)	X	X	X	X	X				X	
Seals (All Types)	X	X			X	X	X	X	X	X
Compressor Rings	X	X	X	X	X	X	X	X		X
Valve Seats/Liners	X	X	X	X	X	X				
Rings (V, O, Back-up)	X	X								
Piston Rings/Seals	X	X	X	X	X					X
Big-billet/Skive Sheet	X			X		X				

Standard Product Offerings and Comparison Data

Free Flow Products (Pelletized)	Tensile Strength psi	Tensile Elongation %	Specific Gravity	Bulk Density g/L	Shrinkage %
FC 403 (15% Glass Fiber)	3100	260	2.18	825	1.80
FC 405 (25% Glass Fiber)	2200	200	2.19	830	1.40
FC 472 (5% Glass Fiber / 5% Molybdenum Disulfide)	3700	260	2.23	800	2.55
FC 474 (15% Glass Fiber / 5% Molybdenum Disulfide)	3000	200	2.27	800	2.10
FC 411 (5% Molybdenum Disulfide)	3500	220	2.21	800	2.50
FR 22 (10% Graphite Powder)	2800	200	2.14	775	2.20
FC 423 (15% Graphite Powder)	1900	120	2.11	650	2.20
FC 433 (15% Carbon Powder)	2800	150	2.10	740	1.90
FC 444 (40% Bronze Powder)	3600	250	3.09	1150	2.00
FC 446 (60% Bronze Powder)	2500	120	3.74	1350	1.70
FC 482 (55% Bronze Powder / 5% Molybdenum Disulfide)	2500	85	3.69	1350	1.80
FC 15 Min SPL (15% Mineral)	3100	250	2.19	800	2.40
Polycomp 460 (10% Ekonol® or Aromatic Polyester)	3300	300	2.04	670	3.00
Polycomp 458 (10% PPS)	3500	280	2.03	560	3.80
FC 432.3 (10% Carbon Fiber)	3400	270	2.11	690	1.40

Low Flow Products (Non-Pelletized)	Tensile Strength psi	Tensile Elongation %	Specific Gravity
FC 103 (15% Glass Fiber)	3600	250	2.20
FC 105 (25% Glass Fiber)	2600	220	2.22
FC 172 (5% Glass Fiber / 5% Molybdenum Disulfide)	4400	270	2.23
FC 174 (15% Glass Fiber / 5% Molybdenum Disulfide)	3600	220	2.26
FC 111 (5% Molybdenum Disulfide)	3900	250	2.21
FC 122 (10% Graphite Powder)	3600	230	2.14
FC 123 (15% Graphite Powder)	3100	200	2.13
FC 133 (15% Carbon Powder)	3300	225	2.12
FC 144 (40% Bronze Powder)	4100	250	3.08
FC 146 (60% Bronze Powder)	3000	200	3.91
FC 182 (55% Bronze Powder / 5% Molybdenum Disulfide)	2300	130	3.64
FC 15 Min (15% Mineral)	3500	250	2.23
Polycomp 160 (10% Ekonol® or Aromatic Polyester)	3600	290	2.04
Polycomp 158 (10% PPS)	3900	300	2.03
FC 132.3 (10% Carbon Fiber)	3400	235	2.11



Fluon® is a registered trademark of AGC Chemicals Americas, Inc.

The information provided herein is related only to the specific product designated and may not be applicable where such product is used in combination with any other materials or in any process. NO REPRESENTATION OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE, ARE MADE HEREUNDER. The user of this product has the sole responsibility to determine the suitability of the product for any use and manner of use intended. This document may be revised after its issuance, and the user is advised to use the latest revision.

55 E. Uwchlan Ave., Suite 201
 Exton, PA 19341
 Fax: 610.423.4301
 Phone: 610.423.4300
 Toll Free (US Only): 800.424.7833
www.fluorocompounds.com