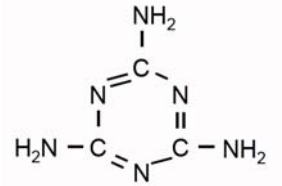
Engineered Fibers Technology, LLC

PRODUCT INFORMATION

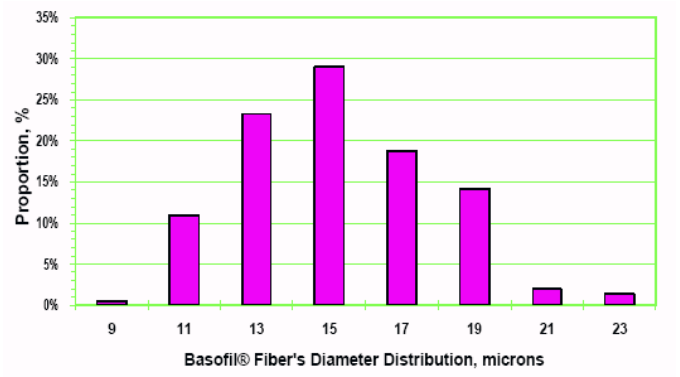
WF Series Short-Cut Basofil Melamine Fiber

OVERVIEW

Basofil® fiber is a cost effective heat resistant fiber based on melamine chemistry, with a 400°F (200°C) continuous operating temperature. Melamine fibers are flame resistant, have outstanding heat/dimensional stability, and are self-extinguishing.



EFT's WF series of melamine fibers have a fiber length distribution tailored for use in wet-laid nonwovens. Typical fiber lengths are in the 1-12mm range, and they show excellent dispersion and formation in wet-laid processes.



UNIQUE FEATURES

- Chars without shrinking
- Naturally flame retardant
- Low thermal conductivity
- Non-toxic / No VOC release

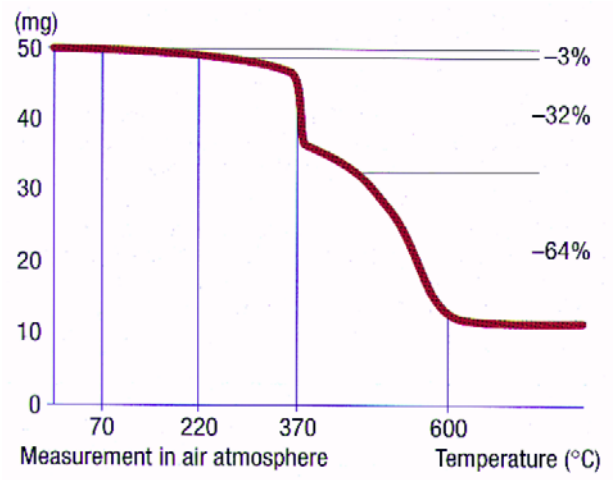
TYPICAL APPLICATIONS

- Mattresses, Home Furnishings / Nonwovens (compliant with 16CFR1633)
- Specialty Flame Resistant Papers
- Firefighting apparel
- Electrical Papers
- Transmission / Friction Papers
- Filtration Media
- Engineered Materials / Short Fiber Composites
- Adhesives / Fillers
- Tire Sealants
- Truck / Rail Brakes

AVAILABILTY

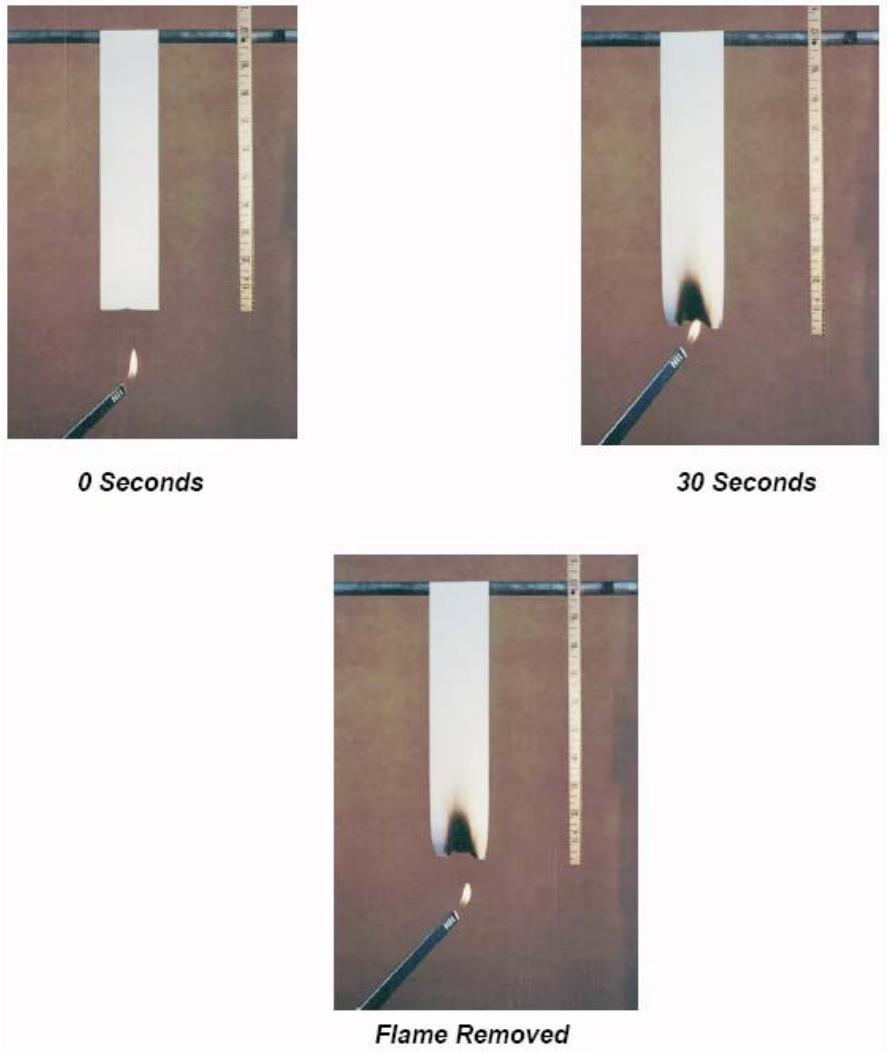
The EFT WF series of short-cut melamine fibers is typically supplied in "wet-crumb" form with a solids content of 20-35%, depending on grade. Standard packaging is one 1000lb plastic lined box per pallet. Custom grades and special packaging are available.

HEAT RESISTANCE



Thermogravimetric Analysis of WF Series Melamine Fiber

FLAME RESISTANCE



Behavior of self-extinguishing model paper containing 35% WF Series Melamine Fiber

TYPICAL PROPERTIES

Measurement	Units	Typical Values
Color		Ivory white
Average Diameter	μm	15
Average Denier	g/9000m	2.4
Specific Gravity		1.4
Tensile Strength	ksi	36
Tenacity	g/den	2.0
Modulus	Msi g/den	1.0 55
Elongation at Break	%	11
Moisture Regain (23°C, 65% RH)	%	5
Shrinkage at 200°C (1hr exposure)	%	< 1
Limiting Oxygen Index	%	32
Maximum Continuous Operating Temperature	°C	200
Melting Temperature	°C	Does not melt or drip
Resistance to Mildew, Aging, Sunlight		Excellent
Resistance to Solvents, Alkalis		Excellent

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