

Flamecheck™ M-111 Fire Retardant Spray: Product Data Sheet



BASIC INFO:

Flamecheck™ M-111 is easy to apply with a light mist on these absorbent surfaces:

- ✓ Fabric (natural, synthetic and blends)
- ✓ Curtains
- ✓ Carpeting
- ✓ Flags & Banners
- ✓ Costumes
- ✓ Props
- ✓ Rope
- ✓ Decorations
- ✓ Polystyrene
- ✓ Foam Rubber
- ✓ Backdrops
- ✓ Real & Silk Flowers
- ✓ Paper & Raw Wood
- ✓ Christmas Trees
- ✓ **Anything Absorbent!*

**some restrictions apply*

Flamecheck™ M—111 is a universal fire-retardant spray with a “Class A” fire rating. Flamecheck™ M-111 is a water-based fire-retardant treatment that is non-toxic, non-allergenic, non-corrosive, non-bioavailable, non-odorous (when dry) and environmentally friendly. Flamecheck™ M-111 works by creating a melamine carbon shield that stops ignition.

Application: Small applications can use a hand trigger sprayer. Larger applications are suggested to use an airless paint sprayer with a fan nozzle of .05mm. Dip & squeeze is an acceptable application method. If treating synthetics 2 or more applications might be necessary to achieve a “Class A” finish. Test after each application once dry. A minimum of 10% on weight of fabric is recommended.

Coverage: 300-500 sq. ft. per gallon.

Test: Using NFPA small scale field test. 1”x6” treated sample (dry). Hold above gas flame for 12 seconds. Item should not drip flame or lose more than 10% of it’s weight. Item should not continue to burn or afterglow more than 2 seconds after removal of flame.

Total Solids:	52%
Relative Density:	1.15
Average pH:	6.5-7
Color:	Clear pale yellow
Dries:	Clear
Smell:	Light lemon scent
Bacterial:	Good resistance
Fungus:	Good resistance
Volatility:	None
Toxic:	Non-toxic LD50>5000 Class V
Bio-degradable	Yes
Boiling Point:	>110°C
Evaporation Point:	As water
Solubility in water:	Miscible in all proportions
Dries:	Non-odorous
Viscosity:	Non-viscose
Flammability:	None
Flash Point:	None
Shelf Life:	Unlimited in sealed containers
State at room temperature:	Liquid
Corrosive	Non-corrosive on un-plated mild steel
Linear shrinkage:	None

CERTIFICATES

Flamecheck™ M-111 meets or exceeds a “Class A” finish when properly applied for this test standard:

- NFPA 701-705
- CA Title 19
- ASTM E-84
- ASTM E-648
- NFPA 253
- NFPA 255
- UL 723
- FAA 853B
- FAA 25
- UBC 42-1
- MVSS 302
- NTB#44
- BFD IX-1

