DuPont™ FM-200®

MATERIALS COMPATIBILITY

Metals

Laboratory tests indicate that DuPont™ FM-200® has no serious adverse effect on the metals commonly encountered in fire suppression systems. Test coupons were exposed to liquid and gaseous FM-200® at 130˚ F for 18 days, according to the procedures outlined in ASTM Standard G3 1, Laboratory Immersion Corrosion Testing of Metals. The ASTM tests indicate that all of the following metals are suitable for use with FM-200®.

Aluminum 1100	**Stainless Steel 316**	**Nickel 200**
Aluminum 2024	**Carbon Steel 1020**	**Lead**
Inconel 600	**Yellow Brass**	**Cast Iron, grey**
Stainless Steel 304	**Copper CDA 110**	**Silver 999 + fine**

Elastomers

FM-200® is inert towards most elastomers. Test strips of elastomer were exposed to liquid and gaseous FM-200® at 212˚ F for 166 hours according to the procedures outlined in ASTM Standard D47 1, Standard Test Method for Rubber Property. The maximum linear swell of the test strip was measured and the general condition of the material observed. All of the elastomers listed in the following Table exhibit minimal linear swell, with the exception of urethane and DuPont™ Viton® A.

Effect of FM-200® on elastomers

Elastomers	Max. linear swell @ 212˚ F
Buna N	-3.1%
Butyl I	3.6%
EPDM	1.0%
DuPont™ Hypalon®	-2.0%
NR Rubber	1.7%
Neoprene G	0.8%

Elastomers	Max. linear swell @ 212˚ F
Neoprene W	-3.6%
SBR	-1.2%
Silicone	2.8%
Urethane	>10%
Viton® A	8.4%

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