



BlazeCut Automatic Fire Suppression System

Supporting Document

Chemical Compatibility

T Series



AUTOMATIC FIRE SUPPRESSION SYSTEMS



1 T SERIES SYSTEM CHEMICAL COMPATIBILITY

Below is a list of chemicals that may affect the lifespan of the BlazeCut T Series system. Green indicates chemical compatibility where there should be no impact to the part. The yellow references up to a percentage of solution/compound by mass and the red references the materials that are not compatible in the given solution/compound by mass.

EXPLANATION ON MASS REFERENCE BELOW

Chromic Acid solution (40% by mass @ 23° C) = 40% of Chromic Acid solution and 60% of distilled water at 23°C.

TUBE MATERIAL

BlazeCut's customised plastic formulation

METAL FITTING MATERIAL

Stainless Steel AISI 303

PRESSURE GAUGE MATERIAL

Body: Nickel plated brass

Window: Copolyester

CHEMICAL	TUBE	FITTINGS	GUAGE
ACIDS			
Acetic Acid 5 %	S		×
Citric Acid 10 %			
Carbolic Acid (Phenol)	×		①
Lactic Acid 10 %			×
Hydrochloric Acid 36 %	×	×	
Nitric Acid 40 %	8		•
Sulphuric Acid 38 %		•	•
Chromic Acid 40 %	S		×
BASES			
Sodium Hydroxide 35 %			•
Ammonium Hydroxide 10 %			1
ALCOHOLS			
Isopropyl Alcohol			?
Methanol (Methyl Alcohol)			
Ethanol			
HYDROCARBONS			
n-Hexane	>		?
Toluene			
Isooctane			?
KETONES			
Acetone			
ETHERS			
Diethyl Ether			?

AUTOMATIC FIRE SUPPRESSION SYSTEMS



CHEMICAL	TUBE	FITTINGS	GUAGE
MINERAL OILS			
Insulating oil			
Motor oil			
Oleic Acid + Olive oil			•
STANDARD FUELS			
ISO 1817 Liquid 1	\bigcirc	?	?
ISO 1817 Liquid 2		?	?
ISO 1817 Liquid 3		?	?
ISO 1817 Liquid 4		?	?
Diesel fuel			
Fuel with alcohol			
SALT SOLUTIONS			
Sodium Chloride 10 %			①
Sodium Hypochlorite 10 %		•	•
Sodium Carbonate 20 %			①
Zinc Chloride 50 %			•
OTHER			
Ethyl Acetate			
Hydrogen Peroxide			
Ethylene Glycol (DOT 4 brake fluid)			①
1 % nonylphenoxy-polyethyleneoxy ethanol in water	⊘	?	?
Deionized Water (90 °C)			
Water	⊘		

= OK

= Limited

= Not OK



= Data unavailable

For further information or support, please contact technical@blazecutgroup.com