



Only the best is always safe.

RAMCO® TFE SPRA-GARD® PRODUCT SPECIFICATION

The RAMCO® TFE SPRA-GARD® Safety Shield is fabricated for use on flanges, valves, threaded connections, welded connections, pumps, flow meters or special applications. It is designed to **prevent injury** to personnel or damage to adjoining equipment in the event of a spray out or leak at a joint or connection.

MATERIALS OF CONSTRUCTION:

Fabric	PTFE-coated fiberglass fabric, tan in color
Tie-down cords	PTFE-coated fiberglass, orange in color
Thread	PTFE-coated fiberglass, beige in color
Center reinforcement	PTFE-coated fiberglass, brown in color
pH Indication Window	FEP



SIZES AVAILABLE

ANSI	150#, 300#, 600#, 900#, 1500#	1/4" -60"
DN	PN10, PN16, PN25, PN40, PN 64, PN 100	DN6 – DN1500
JIS	10K, 16K, 20K, 30K, 40K, 63K	6A - 1500A

(Other sizes or custom manufacturing may be available – please contact factory.)

PRESSURE / TEMPERATURE RATING:

Temperature	-112°F (-80°C) to 450°F (232°C)	Maximum Pressure	1650 psi. (114 bar)
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DESIGN CONSIDERATIONS

- ☐ The TFE SPRA-GARD® Shield shall be constructed of three layers of PTFE-coated fiberglass fabric (10mil thickness per layer) and one layer of reinforcing PTFE-coated fiberglass scrim for strength at stress areas. No holes through the reinforced surface of the shield are permitted. Tie-Down cords shall
- ☐ be 0.125 (3.2mm) minimum diameter. A Velcro® closure shall be added to aid in installation. The TFE
- ☐ SPRA-GARD® Safety Shield shall be of adequate width to extend beyond the flange bolts and
- ☐ tie down to the pipe on either side of the flange face.
- ☐ The TFE SPRA-GARD® Safety Shield shall indicate the presence of an acid or caustic leak by means of
- ☐ a replaceable indicating pH paper in a sleeve.

□ When subjected to flame, the material of construction should not produce any toxic or corrosive fumes or by-products. The TFE SPRA-GARD® Safety Shield and tie-down cords should be self-extinguishing, non-flammable and non-combustible.

For more information contact:

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COMMON APPLICATIONS

INDUSTRY	SERVICE	APPLICATION
PETROCHEMICAL	AMMONIA	COMPRESSORS / AIR SCRUBBERS
	BENZENE	
	CHLORINE	CAUSTIC UNIT / WATER TREATMENT
	PHENOL	
	PROPYLENE	
	SODIUM HYDROXIDE / CAUSTIC SODA	
	SULPHUR DIOXIDE	BOILERS / CRACKING UNIT
	SULFURIC ACID	
	TOLUENE	
POWER GENERATION	AMMONIA	AIR SCRUBBER
	FERRIC CHLORIDE	WATER TREATMENT
	HYDRAZINE	BOILER WATER TREATMENT
	HYDROCHLORIC ACID	WATER TREATMENT
	HYDROGEN PEROXIDE	WASTEWATER TREATMENT
	SODIUM HYDROXIDE / CAUSTIC SODA	WATER TREATMENT
	SODIUM SULFIDE	
	SULFURIC ACID	WATER TREATMENT
PULP & PAPER	BLACK LIQUOR	BYPRODUCT/FUEL SOURCE
	CHLORINE DIOXIDE	WATER TREATMENT / PULP BLEACHING
	DTPA (DIETHYLENE TRIAMINE PENTA ACETATE)	CHELATION
	EDTA (ETHYLENE DIAMINE ACETIC ACID)	CHELATION
	FSA (FORMAMIDINE SULFURIC ACID)	DEINKING BLEACHING
	HYDROGEN PEROXIDE	BLEACHING
	MAGNESIUM BISULFITE	SULFITE PULPING
	SODIUM ALUMINATE	PH CONTROL
	SODIUM BISULFITE	PULPING
	SODIUM CARBONATE	ALKALINE PULPING
	SODIUM CHLORATE	CHLORINE DIOXIDE GENERATION
	SODIUM HYPO-CHLORITE	BLEACHING
	SODIUM PEROXIDE	BLEACHING
	SODIUM SULFIDE	KRAFT/SULFIDE COOKING
	THIOUREA DIOXIDE	DEINKING BLEACHING
	WHITE LIQUOR	SEPARATION
OIL REFINERY	AMMONIA	COMPRESSORS / AIR SCRUBBERS
	BENZENE	
	CHLORINE	CAUSTIC UNIT / WATER TREATMENT
	PHENOL	
	PROPYLENE	
	SODIUM HYDROXIDE / CAUSTIC SODA	
	SULPHUR DIOXIDE	BOILERS / CRACKING UNIT
	SULFURIC ACID	"ALKY" (ALKYLATION) UNIT
	TOLUENE	





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COMMON APPLICATIONS

MARINE	SEAL OIL LUBE OIL ANTI-SCALANT HYDROCHLORIC ACID SODIUM HYDROXIDE / CAUSTIC SODA	TURBINE WATER TREATMENT WATER TREATMENT WATER TREATMENT
TRANSPORTATION- TRUCK RAIL BARGES / FERRIES	LOADING / UNLOADING DOCKS FUEL OIL HYDRAULIC OILS CHEMICAL BARGES PIPELINE	FLANGES / HOSES / VALVES FUEL LINES ON FERRIES CRANE LINES ABOVE WATER PIPING CONNECTIONS ABOVE DECK
SEMI-CONDUCTOR	AMMONIA BENZENE CHLORINE METHYL ETHYL KETONE- BUTANONE PHENOL PROPYLENE SODIUM HYDROXIDE / CAUSTIC SODA SULPHUR DIOXIDE SULFURIC ACID TOLUENE	COMPRESSORS / AIR SCRUBBERS CAUSTIC UNIT / WATER TREATMENT BOILERS / CRACKING UNIT WATER TREATMENT
MINING- PRECIOUS METALS	SULFURIC ACID HYDROCHLORIC ACID SODIUM HYDROXIDE / CAUSTIC SODA CYANIDE	LEACHING / WATER TREATMENT WATER TREATMENT WATER TREATMENT LEACHING
WATER / WASTEWATER TREATMENT	CHLORINE SODIUM HYDROXIDE / CAUSTIC SODA SULFURIC ACID ANTI-SCALANT HYDROCHLORIC ACID	CAUSTIC UNIT / WATER TREATMENT WATER TREATMENT WATER TREATMENT DE-SCALER IN PIPING SYSTEMS WATER TREATMENT
FOOD AND BEVERAGE	CHLORINE SODIUM HYDROXIDE / CAUSTIC SODA SULFURIC ACID ANTI-SCALANT HYDROCHLORIC ACID	CAUSTIC UNIT / WATER TREATMENT WATER TREATMENT WATER TREATMENT DE-SCALER IN PIPING SYSTEMS WATER TREATMENT
PHARMACEUTICAL	CHLORINE SODIUM HYDROXIDE / CAUSTIC SODA SULFURIC ACID ANTI-SCALANT HYDROCHLORIC ACID ACETIC ACID FORMIC ACID HYDROGEN PEROXIDE PHOSPHORIC ACID PERCHLORIC ACID NITRIC ACID LACTIC ACID TRIFLUOROACETIC ACID AMMONIUM ACETATE	CAUSTIC UNIT / WATER TREATMENT WATER TREATMENT / PROCESS WATER TREATMENT / PROCESS DE-SCALER IN PIPING SYSTEMS WATER TREATMENT / PROCESS PROCESS PROCESS PROCESS PROCESS PROCESS PROCESS PROCESS PROCESS PROCESS

