RIVERDALE MILLS CORPORATION

130 Riverdale Street
P.O. Box 200
Northbridge, MA 01534-0200 USA
Corporate Office:
Telephone (508) 234-8715
Telefax (508) 234-9595

Sales Office:
Telephone (508) 234-8400
Outside MA (800) 762-6374
Telefax (508) 234-9593

Technical Specifications: Cooling Tower Fill Slat Hangers

Wire Properties	Test Method	Observations	
WIRE DIAMETER	ASTM A-641 (Table 6)	GALVANIZED	STAINLESS STEEL
		Nom. O.D. +/-.003"	Nom. O.D. +/-.003"
WEIGHT OF ZINC COATING	ASTM A-90	14/13 GA .25 OZ/SQ FT MIN.	
		12/10 GA .30 OZ/SQ FT MIN.	
TENSILE STRENGTH	ASTM A-370	60,000 P.S.I. MIN.	95,000 - 115,000 P.S.I. UNLESS OTHERWISE SPECIFIED

Weld Strength	Test Method	Observations	
MINIMUM LOAD FAILURE	INSTRON	14/14 250 LBS.	14/14 300 LBS.
		12 1/2/12 1/2 400 LBS.	12 1/2/12 1/2 500 LBS.
		10 1/2/10 1/2 500 LBS.	10 1/2/10 1/2 550 LBS.

PVC Coating Properties		
TENSILE STRENGTH	ASTM - D-638	2275 PSI MINIMUM
ELONGATION	ASTM - D-638	200% MINIMUM
HARDNESS	ASTM D-2240	75 SHORE A
FLEXIBILITY	MANDREL BEND	No breaks/cracks when bent 360° around a mandrel 10X Diameter of the wire
SALT SPRAY RESISTANCE	ASTM B-117	NO EFFECT AFTER 1,000 HRS.
PVC COATING ADHESION	Bond shall be strong enough that the PVC breaks rather than peels away from the underlaying wire	

Wire Mesh Dimension Tolerances			
INDIVIDUAL SPACING	+/- 1/8"	DIAGONAL	1.00"
OVERALL LENGTH	+/- 1/4" over a six ft. length	FLATNESS	2" Max at mid panel
WIDTH	+/- 1/8"	PIGTAILS	0.25" +/-0 .25"

Chemical Resistance Chart - See Page 2

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Technical Specification - Chemical Resistance Chart

CHEMICAL TYPE	VINYL RATING		CHEMICAL TYPE	VINYL RATING	
	COLD : 70°F	HOT : 180°F FOR BOILING POINT OF SOLVENT		COLD : 70°F	HOT : 180°F FOR BOILING POINT OF SOLVENT
ACIDS:			**ACID SALTS**		
ACETIC 10%	F	P	ALUMINUM SULFATE	E	E
ACETIC GLACIAL	P	E	AMMONIUM CLORIDE*	E	E
BENZENE SULFONIC 10%	E	E	COPPER CLORIDE*	E	E
BENZOIC	E	E	IRON CHLORIDE*	E	E
BORIC	E	P	NICKEL CHLORIDE*	E	E
BUTYROC 100%	G	P	ZINC CLORIDE*	E	E
CHLORACETIC 10%	F	G	**ALKALINE SALTS**		
CHROMATIC 5%	E	E	BARIUM SULFIDE	E	E
CITRIC 5%	E	F	SODIUM BICARBONATE	E	E
FATTY ACIDS	E	E	SODIUM CARBONATE	E	E
FLUOSILICIC	E	E	SODIUM SULFIDE	E	E
FORMIC 90%	F	P	TRISODIUM PHOSTHATE	E	E
HYDROBROMIC 20%	E	E	**NEUTRAL SALTS**		
HYDROCLORIC 20%	E	E	CALCIUM CHLORIDE*	E	E
HYDROCYANIC	E	E	MAGNESIUM CHLORIDE*	E	E
HYDROFLUORIC 20%	E	E	POTASSIUM CHLORIDE*	E	E
HYPOCHLOROUS 5%	E	E	SODIUM CHLORIDE*	E	E
LACTIC 5%	E	E	**SOLVENTS:**		
MALEIC 25%	G	F	ALCOHOLS	E	E
NITIRC 5%	E	E	ALIPHATIC HYDROCARBONS	F	P
NITRIC 30%	E	F	AROMATIC HYDROCARBONS	P	P
OLEIC	E	F	CHLORINATED HYDROCARBONS	P	P
OXALIC	E	E	KETONES	P	P
PHOSPORIC	E	E	ETHERS	P	P
PICRIC	P	P	ESTERS	P	P
STEARIC	E	F	GASOLINE	E	P
SULFURIC 50%	E	E	CARBON TETRACHLORIDE	P	P
SULFURIC 80%	E	G	**ORGANICS**		
TANNIC	E	G	ANILINE	P	P
ALKALIES:			BENZENE	P	P
AMMONIUM HYDROXIDE	E	E	FORMALDEHDE 37%	E	E
CALCIUM HYDROXIDE	E	E	PHENOL 5%	P	P
POTASSIUM HYDROXIDE	E	E	MINERAL OILS	P	P
SODIUM HYDROXIDE	P	P	VEGTABLE OILS	F	F
			CHLOROBENZENE	P	P

KEY
E = EXCELLENT = NO EFFECT
G= GOOD = APPRECIABLY NO EFFECT
F = FAIR = SOME EFFECT BUT USABLE
P = POOR = NOT RECOMMENDED

*** = ALSO NITRATES AND SULFATES**