

TABLE 7. RESISTANCE TO CORROSION OF MATERIALS USED FOR HOODS AND DUCTS*

CLASSIFICATION	APPROXIMATE SERVICE LIFE	SEE FOOTNOTE													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
E-Excellent	Over 5 years	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP
S-Satisfactory	4 to 5 years	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP
F-Fair	2 to 3 years	P	P	P	P	P	P	P	P	P	P	P	P	P	P
P-Poor	6 months	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Combinations (EP)	Indefinite rating														
Acid, Chromic (Pickling and Anodizing)		EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP
Acid, Hydrochloric		EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP
Acid, Hydrofluoric		P	P	P	P	P	P	P	P	P	P	P	P	P	P
Acid, Nitric		P	P	P	P	P	P	P	P	P	P	P	P	P	P
Acid, Oxalic (Anodizing)		P	P	P	P	P	P	P	P	P	P	P	P	P	P
Acid, Sulfuric		P	P	P	P	P	P	P	P	P	P	P	P	P	P
Acid Dipping and Pickling (Horizontal Ducts)		EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP
Alkaline Cleaner (Caustic 140-180 F)		EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP
Alkaline Cleaning Solutions		E	E	E	E	E	E	E	E	E	E	E	E	E	E
Alkaline Pickling (Cu, Cd, Ag)		EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP
Pickling and Anodizing (Horizontal Ducts)		SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP
Pickling, Bright Nickel		P	P	P	P	P	P	P	P	P	P	P	P	P	P
Pickling and Dipping (Vertical Ducts)		SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP
Tanning, Dressing, Dyeing, Bleaching Sol.		SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP
Water, Boiling and Steam		E	E	E	E	E	E	E	E	E	E	E	E	E	E
Decarbonizing Agents		E	E	E	E	E	E	E	E	E	E	E	E	E	E
Degreasing Compounds, Organic & Mineral Sol.		E	E	E	E	E	E	E	E	E	E	E	E	E	E
Enamels and Lacquers (Coating & Dipping)		S	S	S	S	S	S	S	S	S	S	S	S	S	S
Fabric Impregnation		S	S	S	S	S	S	S	S	S	S	S	S	S	S
Salt, Superheated Solution 300-400 F		S	S	S	S	S	S	S	S	S	S	S	S	S	S
Wire Insulation		S	S	S	S	S	S	S	S	S	S	S	S	S	S

Notes: 1. Ratings are based upon collated field service reports. Indefinite ratings are given where reports are inconsistent due to varying operating conditions (such as dilution, exposure to weather, etc.). Blank spaces denote insufficient information, not poor service. 2. Mild soap, detergent, water soluble oils, 140-180 F. 3. Cresote oil, kerosene, ethylene dichloride. 4. To 20 percent; E: 30-50 percent; S: 60-80 percent; P: 80-100 percent. 5. To 60 percent; E: 60-80 percent; S: 80-100 percent; P: 100 percent. 6. To 50 percent pickling; S: over 50 percent pickling. 7. 5-22 percent; E: 23-40 percent; S: 41-50 percent; P: 51-60 percent. 8. Except acid. 9. Acid.

TABLE 8. RESISTANCE TO CORROSION OF MATERIALS USED FOR EXHAUST FANS*

PROCESS	APPROXIMATE SERVICE LIFE	SEE FOOTNOTE													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
Acid Dipping, Pickling and Stripping		EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP
Alkaline Cleaning		EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP
Anodizing		SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP
Coating—Enamel and Lacquer		E	E	E	E	E	E	E	E	E	E	E	E	E	E
Decarbonizing		ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Degreasing and Metal Cleaning		ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Hardening and Quenching		ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Pickling		EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP
Washing and Rinsing		EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP

Note: Ratings are based upon collated field service reports. Forward curved fans are not recommended for open-tank ventilation service. Cleanout doors and bottom drains are recommended on all fans on open-tank operations. The deposits which build up on fan wheels and casings should be removed by regular cleaning. Repaint where any coating has been broken and removed.