

MARYLAND METRICS

P.O.Box 261 Owings Mills, MD 21117 USA

(410)358-3130 (800)638-1830 Faxes: (410)358-3142 (800)872-9329

http://mdmetric.com

techinfo@mdmetric.com

TECHNICAL INFORMATION and DATA

Table of Resistance

Corrosive Agent	Concentration	L	Temperature	Material Nr.					
				C 4021 4104	C + F 4016 4510 4057	A2 4301 4306 4541 4305 4540	A4 4401 4404 4436 4571 4435	div. 4449* 4577^ 4506+ 4539*	
Acetic acid CH ₃ COOH	10 %		20°C boiling	- 2	0 2	0 0	0 0		
	50 %		20°C boiling	2 3	1 2	0 1	0 0		
Acetic acid	100 %		20°C boiling	1 3	0 2	0 1	0 1	0°	
Acetic acid + hydrogen peroxide CH ₃ COOH + H ₂ O ₂	10 % & 50 %		20°C 50°C 90°C	1 2 3	0 0 1	0 0 0	0 0 0		
		Acetic anhydride (CH ₃ CO) ₂ O	-	20°C boiling	0 2	0 1	0 0	0 0	
		Acetone CH ₃ COCH ₃	all concentrated	20°C boiling	1 2	0 1	0 0	0 0	
Acetyl Chloride CH ₃ COCl	-	x	boiling	2	1	1	1		
Acetylic acid HOOC.C ₆ H ₄ .OCOCH ₃	-		20°C	0	0	0	0		
Acid-salt mixtures: H NO ₃ fuming + 10 % potassium nitrate	-		boiling	-	-	1	1		
H NO ₃ fuming + 10% aluminium nitrate	-		boiling	2	1	0	0		
10 % H ₂ SO ₄ + 10 % copper sulphate	-		boiling	3	2	2	1		
10 % H ₂ SO ₄ + 2 % ferric-III-sulphate	-		boiling	3	2	2	1		
Aluminium Al	molten		750°C	3	3	3	3		
Aluminium acetate (CH ₃ COO) ₃	saturated		20°C	-	0	0	0		
	saturated		boiling	-	0	0	0		
Aluminium ammonium sulphate Al (NH ₄) (SO ₄) ₂ . 12H ₂ O	-		20°C boiling	- -	- -	0 3	0 2	0+°	
Aluminium chloride Al Cl ₃ . 6H ₂ O	5 %	x	50°C	-	-	2	1	0+	
	25 %	x	20°C	-	-	3	2	2+	
Aluminium nitrate Al (NO ₃) ₃ . 9H ₂ O	-		20°C	0	0	0	0		
Aluminium sulphate Al ₂ (SO ₄) ₃ . 18H ₂ O	10 %		20°C	2	1	0	0		
			boiling	3	2	1	0		
	saturated		20°C boiling	2 3	2 3	1 2	0 1	0+°	
Ammonia NH ₃	-		-	0	0	0	0		
Ammonium bifluoride NH ₄ HF ₂	cold saturated		20°C	3	3	0	0		
Ammonium bicarbonate NH ₄ HCO ₃	-		20°C	0	0	0	0		
Ammonium chloride (sal-ammoniac) NH ₄ Cl	10 %		boiling	1	0	0	0		
	25 %	x	boiling	1	1	1	1		
	50 %		boiling	-	-	2	1	1+	
	saturated		20°C	-	0	0	0		
	saturated		boiling	-	-	2	1	1+	
with copper and zinc chlorides	cold saturated		boiling	3	3	3	3		
Ammonium hydroxide = liquid ammonia NH ₄ OH	any		20°C boiling	0 0	0 0	0 0	0 0		
Ammonium carbonate (NH ₄) ₂ CO ₃ . H ₂ O	saturated		20°C	0	0	0	0		
	saturated		boiling	0	0	0	0		
Ammonium hexachlorostannate (IV) = pink salt (NH ₄) ₂ [SnCl ₆]	cold saturated	x	20°C	2	2	1	0		
			60°C	3	3	3	3		
Ammonium nitrate NH ₄ NO ₃ . 9H ₂ O	saturated		20°C	0	0	0	0		
	saturated		boiling	1	0	0	0		
Ammonium oxalate (NH ₄) ₂ C ₂ O ₄ . H ₂ O	-		20°C	1	1	0	0		
			boiling	2	2	0	0		
Ammonium perchlorate NH ₄ . ClO ₄	10 %	x	20°C	-	0	0	0		
			boiling	2	2	0	0		
Ammonium sulphate (NH ₄) ₂ SO ₄ sulphuric acid	saturated		20°C	1	1	0	0		
	saturated		boiling	2	2	1	0		
	+ 5 %		100°C	3	3	1	1	0+^	
Ammonium sulphite (NH ₄) ₂ . SO ₃ . H ₂ O	saturated		20°C	-	0	0	0		
	saturated		boiling	2	2	0	0		
Aniline C ₆ H ₅ NH ₂	-		20°C	0	0	0	0		
Aniline hydrochloride C ₆ H ₅ NH ₂ HCl	5 %	x	20°C	3	3	3	3		
Antimony Sb	molten		650°C	3	3	3	3		
Antimony chloride Sb Cl ₃	-		20°C	3	3	3	3		
Aqua regia H Cl + H N O ₃	-	x	20°C	3	3	3	3		
Arsenic acid H ₃ A ₅ O ₄ . 1/2 H ₂ O	-		-	0	0	0	0		
Atmosphere	-		-	1	1	0	0		
Barium chloride Ba Cl ₂ Ba Cl ₂ . 2 H ₂ O	-		fused mass	3	3	3	3	3°	
	saturated solution	x	20°C	1	0	0	0		
			boiling	2	2	1	0		