



P.T. CIMANGGIS SAKTI

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ISO 9001:2008 - ISO 14001:2004 CERTIFIED COMPANY
BY SAI GLOBAL
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SPECIFICATION

	Battery Grade 46 %	Battery Grade 40 %	Zinc Ammonium Chloride 50 %
Zinc Chloride (ZnCl ₂)	46 % min	40 ± 0.5 %	28 % min
Specific Gravity	1.500 g/ml min (t=30 ^o C)	1.410 g/ml min (t=30 ^o C)	1.280 g/ml min (t=30 ^o C)
Ammonium Chloride (NH ₄ Cl)	0.35 % max	1.3 ± 0.2 %	22 % min
Iron (Fe)	0.0005 % max	0.0003 % max	0.0005 % max
pH	3.0 - 3.3 (t=30 ^o C)	3.5 min (t=30 ^o C)	4.5 ± 0.2 (t=30 ^o C)
Colour	Clear	Clear	Clear
Copper (Cu)	0.0001 % max	0.00005 % max	
Lead (Pb)	0.0005 % max	0.0003 % max	
Manganese (Mn)	0.05 % max	0.01 % max	
Alkali Salts (Na, K)	0.40 % max	0.40 % max	
Cadmium (Cd)	0.0005 % max	0.00005 % max	
Sulphates (SO ₄)	0.01 % max	0.001 % max	
Basicity	0.5 - 1 %	0.5 - 0.8 %	

Other specification Zinc Chloride are available upon customer request.