

VA Application Note No. V - 147

Title: Brightener «InPulse H6» in acid copper baths (Atotech)

Summary: Determination of brightener «InPulse H6» in acid copper baths by modified linear approximation technique (MLAT) using cyclic pulse voltammetric stripping (CPVS).

Sample: Acid copper electroplating bath
Sample preparation: None

Analysis of brightener «InPulse H6»																													
Electrolyte	Virgin make-up solution (VMS) CuSO ₄ , FeSO ₄ , Fe ₂ (SO ₄) ₃ , H ₂ SO ₄ and NaCl concentrations according to supplier specifications.																												
Measuring solution	Intercept solution 37.5 mL VMS + 1.5 mL suppressor «InPulse H6»																												
	Sample 12.5 mL acid copper plating bath																												
Working electrode (WE)	Pt-RDE: Drive shaft6.1246.000 + Pt tip for CVS6.1204.170																												
Auxiliary electrode (AE)	Pt6.0343.000																												
Reference electrode (RE)	Reference system: Ag/AgCl/KCl (3 mol/L)6.0728.020 Intermediate electrolyte: KNO ₃ sat.:H ₂ O (3:1) ..6.1245.010																												
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Determination of «InPulse H6»

