Ti Application Note No. T- 11

Title:	**Anionic surfactants in nickel plating bath**

***Summary*:**	Determination of anionic surfactants in a nickel plating bath by potentiometric titration with TEGO®trant A100 using the «Ionic Surfactant» electrode.

Sample:	Nickel plating bath

Sample Preparation:	none

Instruments and Accessories:	702, 716 or 736 Titrino or 726 Titroprocesssor, 6.0507.120 «Ionic Surfactant» electrode and 6.0733.100 reference electrode

Analysis:	Weigh exactly ca. 6 ... 9 g sample into a beaker and dilute with dist. water to ca. 150 mL. Titrate with c(TEGO®trant A100) = 0.004 mol/L in the MET mode in volume steps of 0.8 mL.

Calculation:	1 mL c(TEGO®trant A100) = 0.004 mol/L corresponds to 1.1536 mg sodium dodecylsulphate (Na DDS). % Na DDS = EP1 * C01 / C00 EP1 = titrant consumption in mL C00 = sample weight in g C01 = 0.11536

Remarks:	Clean the electrode surface after every titration with soft paper tissue soaked in methanol. **Result:** AVG(3) = 0.0693 +/- 0.001 % Na DDS