Ti Application Note No. T- 26

Title:	**Perborate, percarbonate or persulphate in washing powder**

***Summary*:**	Determination of perborate, percarbonate or persulphate in washing powder by iodometric potentiometric titration using the Pt Titrode.

Sample:	Washing powders

Sample Preparation:	Weigh exactly ca. 0.4 g sample into a 100 mL volumetric flask, «dissolve» in cold, dist. water, fill the flask to the mark and mix the contents.

Instruments and Accessories:	702, 716 or 736 Titrino or 726 Titroprocessor, 6.0431.100 Pt Titrode

Analysis:	Pipette 25.0 mL of the prepared sample solution into a beaker, then add 20 mL c(H_2SO_4) = 2 mol/L and ca. 1 g potassium iodide. Mix to dissolve the iodide, cover the beaker with a watch glass and store it in the dark for 10 min. Then titrate with c($Na_2S_2O_3$) = 0.1 mol/L.

Calculation:	1 mL c($Na_2S_2O_3$) = 0.1 mol/L corresponds to 7.639 mg Na perborate 6.100 mg Na percarbonate 11.905 mg Na persulphate % peroxide compound = EP1 * C01 * C02 / C00 EP1 = titrant consumption in mL C00 = ca. 100 (mg of original sample contained in the sample volume used for the titration) C01 = 7.639 or 6.100 or 11.905 (equivalent of the peroxide compound in mg/mL, see above) C02 = 100 (conversion factor for %)

Remarks:	Results: AVG(4) = 3.36 +/- 0.05 % Na perborate