



DETERGENTS

Typical end products

Floor wax, furniture wax, household detergents

Introduction

Detergents are synthetic and organic cleaning agents, which are liquid-, water- or oil-soluble. Detergents have a wetting-agent and emulsifying properties.

Floor waxes, furniture waxes, deodorants and shampoos are typical household detergents, which are usually manufactured with a batch process.

Application

When liquid wax is produced, it consists of two major components. These components are solids, polymers which actually give the wax coating, and

volatile carriers, which are liquids that keep the polymers in solution but will evaporate after use. The solid and the volatile carriers' product content must be closely controlled.

Installation

The K-Patents Process Refractometer PR-23-AC is used to measure the percent of solids in the solution. Concentration range in floor wax is 10-30% solids (1.33-1.40 R.I.) and the process temperature is about 27°C (81°F).

Instrumentation



Description

K-Patents Sanitary Compact Refractometer PR-23-AC for small pipe line sizes of 2.5 inch and smaller.

The PR-23-AC sensor is installed in the pipe bend. It is angle mounted on the outer corner of the pipe bend directly, or by a flow cell using a 3A Sanitary clamp or Varivent® connection.

Measurement range:

Refractive Index (nD) 1.3200 – 1.5300, corresponding to 0-100 % by weight.