Analysis of Polywax 655
Using Ultra ALLOY®-SIM Column for Simulated Distillation

Ultra ALLOY®-SIM (stationary phase : Dimethylpolysiloxane) column has been designed for simulated distillation analysis.

This is a low bleeding nonpolar column, especially useful for simulated distillation analysis, in which the high thermal stability of the Ultra ALLOY® columns (see Ultra ALLOY® Column Tech Note UAI-003E) is best utilized. Fused silica capillary columns are always vulnerable to column breakage at high temperatures due to thermal degradation of polyimide outer wall coating in the air; however, Ultra ALLOY®-SIM metal column is free from such problems.

Specifications: Ultra ALLOY®-SIM (Dimethylpolysiloxane), 5m (0.53mmi.d.) 0.1µm, Temp.range: - 60 ~430ºC

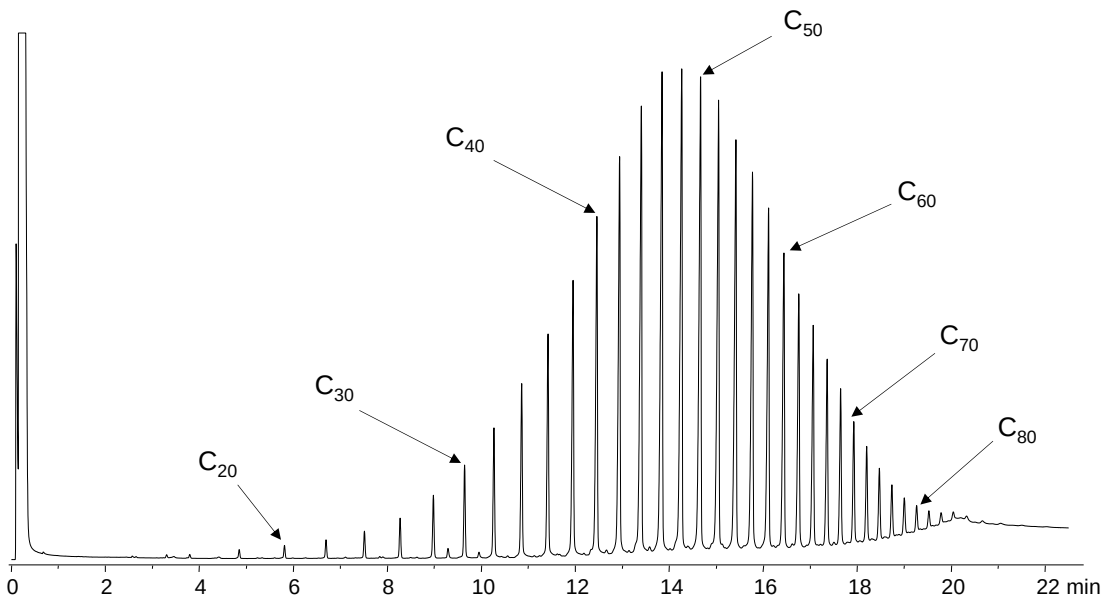

Fig.1 Analysis of Polywax 655

Column: Ultra ALLOY®-SIM (Dimethylpolysiloxane), 5 m (0.5 mm i.d.), 0.1 µm
Oven temp.: 40 ~ 20 ºC/min ~ 430ºC(1 min), Injector: Split 1/20 at 360ºC
Detector: FID at 430ºC, Carrier gas: He, 0.5 psi
Sample size: 1.0%,1.0 µl (solvent : cyclohexane)

Keywords : Polywax 655, High Temperature Analysis

Products used : Multi-functional pyrolyzer, Ultra ALLOY®-SIM

Applications : Analysis of High Boiling Components, Crude oil / Lubricant Analysis

Related technical notes :

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Frontier Laboratories Ltd.
Phone: (81)24-935-5100 Fax: (81)24-935-5102
http://www.frontier-lab.com/

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