

Paraffin manufacturing method

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The manufacturing method of high-purity paraffins is used in cosmetic and pharmaceutical industries, for the hydrophobisation and coating of paper and packaging and the lamination of packaging films used in food industry, as well as for the production of high-end candles.

The method according to the invention is such that slack wax resulting from the solvent dewaxing during the manufacture of base oils is refined with hydrogen in a $\text{MeMo}/\text{Al}_2\text{O}_3$ catalyst under suitable conditions of pressure, temperature, hydrogen to raw material ratio and appropriate catalyst load. The



resultant hydrorefined slack wax is put through the process of solvent deoiling using methyl ethyl ketone toluene as a solvent or thermal deoiling that involves sweating in sweating rooms, whereas the resultant refined hard paraffin is subjected to known finishing operations.

An advantage of the method according to the invention is that refined hard and soft paraffins can be obtained in a single refining process. An additional benefit is an improved selectivity



of the deoiling process following the removal of sulphur and nitrogen compounds from the slack wax during hydrogen refining.