

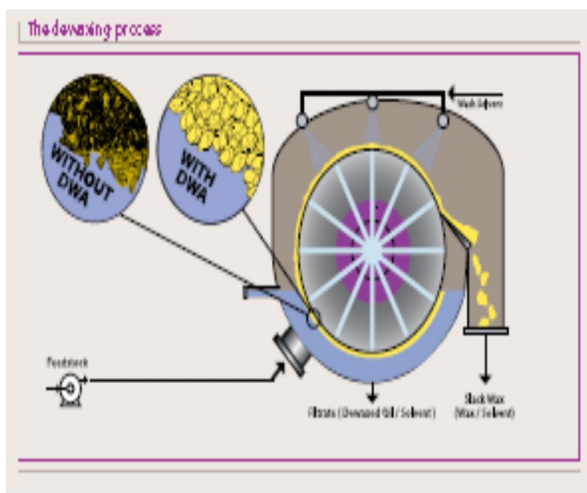
Product Brochure:

Dewaxing aid (HP DWA Version-1) for 150N/SPO grades at Propane Dewaxing Unit

Lube refinery at HPCL Mumbai is producing different grades of lube base oils (LOBS) such as Spindle oil, 150 N, 500 N and Bright stock. Solvent dewaxing process is one of the important processes in lube refinery, which is used to remove wax from lube raffinates in order to improve Pour point. Dewaxing aid is important and process is not feasible without dewaxing aid. By definition, dewaxing aid is a chemical that assists and enhances the dewaxing process. Some of the functions of DWA are, helps to form proper crystals, improve filtration rate, improve DWO yield and reduce oil content in wax. Propane dewaxing is not commercially viable without dewaxing aid.

HPCL R&D has developed HP DWA Version 1 (HP DWA V1) as dewaxing additive for propane dewaxing unit. Based on lab scale results, best formulation was scaled up to 6 MT and 8 MT. During February 2020 and July 2020 commercial trials were carried out at MR PDU unit. Plant trials were done with SPO and 150 N feed stocks.

Results indicated that with 150N feed rate could be increased to 65 m³/hr with HP-DWA V1. During the entire trial period, products met with the required properties. DWA batch preparation time was reduced from 6 hours to 2 hours.



HPCL developed HP DWA V1 product to replace imported product in Propane dewaxing unit. Plant trials were successfully completed at Mumbai refinery and resulted in better performance with SPO and 150 N feed stock in terms of filtration. Due to good filtration, only two filters were taken inline vs 3 filters for reference additive. HPCL MR is extremely satisfied with the performance HPCL DWA V1 for 150N and SPO.