THERMOPAC

No clay, No solvent

ISO 9001 : 2015

Regenerative Media Based Polishing Systems

Environmentally Friendly

Drawing on decades of experience and continuous innovation, Thermopack has developed an adsorbent, RE-GENERATABALE media-based polishing system (also called finishing system) that yields high quality API I base oil without the usage of hazardous solvents or chemicals; or employing potentially hazardous hydrogen treatment plants.

It is designed as an add-on or retrofit to wiped film evaporators; it is equally applicable to other types of refineries as a final polishing stage. When retrofitted onto an existing refinery, it saves millions. Thermopack polishing system can be customized to seamlessly replace your current acid-clay system as well.

THERMOPAC Polishing System:

- Improves color.
- Removes odour.
- Reduces free sulphur to some extent.
- Reduces organic acidity.
- Improves oxidation stability.
- Has the advantage of higher yields of the finished product when compared with contemporary systems.
- Is the only environmental-friendly option to consumable clay and hazardous solvent extraction systems.
- Is an economical alternative to potentially hazardous hydrogen treatment plants involving very high pressures and temperatures; and hydrogen plants which are governed by explosive regulations. (for Group I Base Oil)
- Can be used for parallel or series type of operation.
- Is a modular system.
- Is available for global voltages and frequencies.

- **Over 1000 Columns are in Operation as of Today.**
- **Largest Single Installation Under One Roof is 360 Columns.**
- **Fully Automatic Regeneration.**
- **Specially Designed Long Life Catalyst Ensures Consistent Performance Each Time and Disposal is Completely Environmental Friendly.**
- **Delivered Projects under CE Certification.**
- **Our Technology Offers Lowest Operating Cost i.e. Max. 12-15 USD per Metric Ton of Finished Product.**

The only Turnkey Re-Refinery Builder

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Typical Characteristics of Base Oil at the Outlet of Finishing System.

SR. NO.	PARAMETERS	SN - 300	TEST METHOD
1.	Appearance	Clear & Bright	Visual
2.	Colour	2.5-3.5	ASTM - D 1500
3.	Density at 15 deg C	0.87-0.89	ASTM - D 1298
4.	Viscosity at 40 deg C, Cst	40-45	ASTM - D 445
5.	Viscosity at 100 deg C, Cst	6.0-7.0	ASTM - D 445
6.	Viscosity Index, Min	99	ASTM - D 2270
7.	Flash point, Deg C, Min	201	ASTM - D 92
8.	Total Acid Number, mg KOH/g	<0.05	ASTM - D 664
9.	Crackle Test/Moisture	Negative	Standard Method
10.	Pour Point, Deg C max	-6	ASTM - D 97
11.	Copper Strip Corrossion, max	1A	ASTM - D 130
12.	Conradson Carbon Residue, % w/w	<0.5	ASTM - D 189
13.	Ash Content, % w/w	0.01	ASTM - D 482
14.	Sulphur Content, % w/w	<1.5	ASTM - D 4927

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