PETROCHEMICALS

UOP ZDA-30 Catalyst System

For UOP Detal™ Process

Description

ZDA-30 is a two zeolitic catalysts system (ZDA-30H and ZDA-30L) used in the new design for high conversion mono-olefins with selectivity to linear alkylbenzene (LAB) in the UOP Detal process.

Applications

ZDA-30 catalyst system is used in the UOP Detal process for the production of LAB. This new zeolite catalyst system allows for alkylation of benzene with linear olefins to make linear alkylbenzene (LAB) with lower heavy alkylate (HAB) by-product and the flexibility to run at lower than 25 wt% or higher than 25 wt% 2-phenyl compared to the older generation catalyst DA-114.

Experience

The ZDA-30 catalyst system was commercialized in 2017.

Typical physical properties (nominal)

	ZDA-30H	ZDA-30L
Shape	Trilobe	Cylinder
Nominal diameter, mm	1.6	1.6
Density ABD, kg/m^3	510	670

Packaging

ZDA-30H

- 55 U.S. gallon drum, net weight per drum is 90

ZDA-30L

- 55 U.S. gallon drum, net weight per drum is 110



FEATURES & BENEFITS

- ***2-phenyl Flexibility:*** ZDA-30 allows for the flexibility to tune the LAB's 2-phenyl content
- ***Reduced Utility and Capital Costs:*** ZDA-30 reduces utility and capital costs by enabling operation at a lower benzene to olefin ratio
- I***mproved Selectivity:*** ZDA-30 improves the monoalkylate selectivity with less heavy alkylated benzenes (HAB) make and improved linear alkylbenzene (LAB) yields

For more information

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