Catalytic Static Mixer
Pd/Al_2O_3 - Palladium on Alumina

DESCRIPTION

Palladium on alumina Catalytic Static Mixer 316L 6mm dia x 150mm is a general hydrogenation/dehydrogenation catalyst that exhibits very high activity with moderate to low selectivity. This CSM is not stable in alkaline media.

DETAILS

Core: 3D printed 316L stainless steel
Catalyst: Pd/Al_2O_3
Mixer Shape: Cylindrical
Dimensions: 6mm diameter x 150mm length

Catalytic static mixers are a novel immobilized catalyst system, based on 3D printed mixer scaffolds containing a catalytic active layer. A variety of different active catalysts can be deposited on the metal mixer, allowing employment in many different classes of chemical reactions, such as hydrogenations, oxidations, C-C couplings and many more. Pd/Al_2O_3 mass is ~300mg/Mixer. Mixer volume 957mm^3.

APPLICATIONS

●●●●● ACTIVITY	●●○○○ SELECTIVITY	●●●●● HYDROGENATIONS	●●●●● NITRO REDUCTION
●●●○○ CARBONYL REDUCTION	●●●●● ALKENE REDUCTION	●●●●● ALKYNE REDUCTION	●●●●○ DEHYDROGENATIONS

PUBLICATIONS

- Continuous flow hydrogenations using novel catalytic static mixers inside a tubular reactor
- The art of manufacturing molecules
- Use of catalytic static mixers for continuous flow gas-liquid and transfer hydrogenations in organic synthesis
- Catalytic Static Mixers for the Continuous Flow Hydrogenation of a Key Intermediate of Linezolid

PRECISION CATALYSTS

03 9792 9815
sales@precisioncatalysts.com
11 Advantage Drive, Dandenong South, Vic, 3175

Issued May 2021