

Catalytic Static Mixer - CSM

Pd/Al₂O₃ - Palladium on Alumina

DESCRIPTION

Palladium on alumina Catalytic Static Mixer (CSM) made from 316L in a flat configuration to suit Ehrfeld Miprowa reactor channels of 300mm x 12mm x 1.5mm.

This CSM 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/Al₂O₃

Mixer Shape: Flat

Dimensions: To fit reactor channels of 300mm x 12mm x 1.5mm (actual CSM 11.8mm x 149mm x 1.4mm)

Part No: Pd/Al₂O₃-316L-12F150-A

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/Al₂O₃ mass is ~350mg/Mixer. Mixer volume 695mm³.



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

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