

Catalytic Static Mixer

$\text{Ru}/\text{Al}_2\text{O}_3$ - Ruthenium on Alumina

DESCRIPTION

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

DETAILS

Core: 3D printed 316L stainless steel

Catalyst: $\text{Ru}/\text{Al}_2\text{O}_3$

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. $\text{Ru}/\text{Al}_2\text{O}_3$ mass is ~300mg/Mixer. Mixer volume 957mm³.



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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