

Catalytic Static Mixer

Ru/Al₂O₃ - Ruthenium on Alumina

DESCRIPTION

Ruthenium on alumina Catalytic Static Mixer 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 high activity with low selectivity. This CSM is not stable in alkali media.

DETAILS

Core: 3D printed 316L stainless steel

Catalyst: Ru/Al₂O₃

Mixer Shape: Flat

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

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. Ru/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

PRECISION
CATALYSTS



03 9792 9815



sales@precisioncatalysts.com



11 Advantage Drive, Dandenong South, Vic, 3175