

# Catalytic Static Mixer

## Ni - Nickel

### DESCRIPTION

Nickel Catalytic Static Mixer 316L in a flat configuration to suit Ehrfeld Miprowa reactor channels of 300mm x 12mm x 1.5mm is a general hydrogenation/dehydrogenation catalyst that exhibits moderate activity with high selectivity. Can be used across a wide pH range.

### DETAILS

**Core:** 3D printed 316L stainless steel

**Catalyst:** Ni

**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)

**Part No:** Ni-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. Active Ni mass is ~300mg/Mixer. Mixer volume 695mm<sup>3</sup>.

### 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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