

TK-261

New hydrogenation catalyst

RESEARCH | TECHNOLOGY | CATALYSTS



Unmatched sulphur protection – high activity hydrogenation catalyst

TK-261 represents the latest development within Haldor Topsøe high activity hydrogenation catalysts. The main objective has been to develop a catalyst with the highest possible activity by optimising both catalyst carrier and active phase. TK-261 has an alumina carrier with an optimised pore size distribution, which improves access to the active sites inside the catalyst. Combined with an increased dispersion of the active phase, the catalyst displays a unique high activity.

TK-261

New hydrogenation catalyst

RESEARCH | TECHNOLOGY | CATALYSTS

WWW.TOPSOE.COM



Organic sulphur conversion

TK-261 is a very highly active and robust nickel molybdenum-based hydrogenation catalyst which will ensure efficient conversion of organic sulphur. In addition, the catalyst will hydrogenate olefins present in the feedstock.

Quadralobe-shaped catalyst

To maximise the overall activity, the TK-261 catalyst is produced in the shape of 2.5 mm asymmetric quadralobes. The quadralobe shape combines a high external surface area per volume with a high void fraction, ensuring increased access for reactant molecules to the bulk of the catalyst while maintaining a low pressure drop in the reactor.

TK-261 properties

Size	2.5 mm
Shape	Asymmetric quadralobes
Composition (typical), wt %	
NiO	2.3
MoO ₃	9.8
Al ₂ O ₃	Balance
Filling density, kg/l	0.5

Benefits of TK-261

The new TK-261 catalyst offers the following advantages:

- Superior hydrogenation activity
- Low pressure drop
- Maximum protection