

High Performance Styrene Catalysts

Duranit 1/8"

BASF potassium trap Duranit 1/8" is used to "trap" / adsorb potassium in oxidative reheat technologies in ethylbenzene dehydrogenation processes such as the UOP/Lummus SMART® Technology.

Suggested Applications

In combination with one of BASF's dehydrogenation catalysts (e. g. StyroStar® S6-42, S6-42 PLUS, S6-62 or FlexiCat Gold®-2) and BASF's oxidation catalysts O0-18 K4-6, the BASF potassium trap Duranit 1/8" provides an excellent package that is well-suited for the UOP/Lummus SMART® process or similar styrene monomer technologies.

Packaging

- PE Bags

Weight

- 35 kg net

Shipping Point

- BASF SE Ludwigshafen, Germany
- BASF Corporation Elyria, USA
- BASF China Shanghai, China

Target Properties

Form	Balls
Diameter (mm)	3-5 (1/8")
Specific Surface (m ² /m ³)	1285
Composition (%)	SiO ₂ max. 80 Al ₂ O ₃ min. 20 TiO ₂ + Fe ₂ O ₃ max. 4 K ₂ O + Na ₂ O max. 4 CaO + MgO max. 1
Loading Density (kg/l)	1300-1400 kg/m ³
Void Space (%)	40-45
Material Density (g/cm ³)	2.2-2.4
Waster absorption (%)	<3
BET surface (m ² /kg)	<0.1
Mohs-Hardness (Mohs)	~8
Max: Application temperature (°C)	1,000
Expansion coefficient (1/K)	4.7x10 ⁻⁶
Specific thermal energy (kJ/ (kg xK)	~0.84
Thermal conductivity (kJ/ (m x h x K)	~6.3

These indicative properties do not represent process capabilities nor specifications.

About Us

BASF's Catalysts division is the world's leading supplier of environmental and process catalysts. The group offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF's Catalysts division develops unique, proprietary solutions that drive customer success.

BASF - We create chemistry

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