

Sulfuric Acid Catalyst

O4-111 SS11x4 / Quattro

Application

For the catalytic oxidation of SO₂ in the production of sulfuric acid. Preferably installed in the second, third and fourth bed.

Composition

Vanadium pentoxide and alkali sulphates on porous silica carrier with special promoters

Form

- Star Rings of 11x4 mm ODxID (SS11x4)
- Quattro of 13x3.2 mm ODxID

Color

Non uniform, gold to green; some discoloration will occur with exposure to ambient humidity

Ignition temperature (theoretical)

SS shape: min. 360°C (min. 680°F)
(depending on gas composition)

Quattro shape: min. 350°C (min. 662°F)
(depending on gas composition)

Operating temperature

SS shape: 410-600°C (770-1110°F)
(depending on gas composition)

Quattro shape: 400-600°C (752-1120°F)
(depending on gas composition)

Properties Star Ring (SS11x4)

Bulk density	0.45 (approx. kg/l) 0.99 (approx. lb/l)
---------------------	--

Knife Edge Hardness	7.0 (min. kg) 15.0 (min. lb)
----------------------------	---------------------------------

Properties Quattro

Bulk density	0.45 (approx. kg/l) 1.00 (approx. lb/l)
---------------------	--

Knife Edge Hardness	10.0 (min. kg) 22.1 (min. lb)
----------------------------	----------------------------------

These properties and composition are approximate values only and actual values as measured may have some percentage of material fall outside these values.

Thermal stability

Stable at continuous operation up to 600°C (1100°F)
(short term peak conditions up to 630°C / 1165°F).

Packaging

- Non-returnable containers
- 200 l corrugated steel drum
 - 1000 l bulk bag

Safety Data Sheets (SDS)

A safety data sheet covering the necessary information is available on request.

Storage

Catalyst should be stored in its original container in a covered and dry area, protected from access by humidity and moisture.

About Us

BASF is a leading global manufacturer of catalysts for the chemical industry, with solutions across the chemical value chain. The business comprises chemical catalysts and adsorbents, refinery catalysts and custom catalysts. In the process catalyst business, priority is given to developing new and improved products that enable the chemical industry transformation to net-zero emissions.

BASF's process catalysts business is part of the company's Performance Chemicals division. The division's portfolio also includes fuel and lubricant solutions, as well as oilfield chemicals and mining solutions. Customers from a variety of industries including Chemicals, Plastics, Consumer Goods, Energy & Resources and Automotive & Transportation benefit from our innovative solutions.

BASF - We create chemistry

www.chemical-catalysts-and-adsorbents.basf.com/sulfuric-acid-catalysts

Americas

BASF Corporation
Phone: +1-732-205-5000
Email: catalysts-america@basf.com

Asia Pacific

BASF (China) Company Limited
Phone: +86-21-2039 2549
Email: catalysts-asia@basf.com

Europe, Middle East, Africa

BASF Services Europe GmbH
Phone: +49-30-20055000
Email: catalysts-europe@basf.com

Note

The information submitted in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

Although all statements and information in this publication are believed to be accurate and reliable, they are presented gratis and for guidance only, and risks and liability for results obtained by use of the products or application of the suggestions described are assumed by the user. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH. Statements or suggestions concerning possible use of the products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that toxicity data and safety measures are indicated or that other measures may not be required. © 2015 BASF