

Sulfuric Acid Catalyst

O4-110 SS11x4/ Quattro / SR 18x7

Application

For the catalytic oxidation of SO₂ in the production of sulfuric acid. Preferably installed in the first bed.

Composition

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

Form

- Star Rings of 11x4 mm ODxID (SS11x4)
- Extrudate Rings of 18x7 mm ODxID (SR18x7)
- 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. 380°C (min. 716°F)
(depending on gas composition)

Quattro shape: min. 370°C (min. 698°F)
(depending on gas composition)

Operating temperature

SS shape: 420-630°C (788-1165°F)
(depending on gas composition)

Quattro shape:
410-630°C (770-1165°F)
(depending on gas composition)

Thermal stability

Stable at continuous operation up to 630°C (1165°F) (short term peak conditions up to 650°C / 1202°F)

Properties SS11x4

Bulk density	0.45 (approx. kg/l) 1.00 (approx. lb/l)
Knife Edge	7.0 (min. kg)
Hardness	15.0 (min. lb)

Properties Quattro

Bulk density	0.45 (approx. kg/l) 1.00 (approx. lb/l)
Knife Edge	10.0 (min. kg)
Hardness	22.1 (min. lb)

Properties SR18x7

Bulk density	0.50 (approx. kg/l) 1.10 (approx. lb/l)
Knife Edge	15.0 (min. kg)

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

Packaging

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

Storage

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

Safety Data Sheets (SDS)

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

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