

# E 315 S 1/8"

## Lead Oxide on Alumina Spheres

**BASF Adsorbent E 315 is a spherical adsorbent for removing arsine and sulfur compounds from hydrocarbon streams in the presence of hydrogen or multiple unsaturated components.**

BASF E 315 is an adsorbent consisting of lead oxide on a proprietary spherical alumina carrier with a nominal diameter of 1/8" (approx. 3.2 mm). It is designed for the removal of trace levels of arsine and sulfur from gaseous and liquid petrochemical feedstocks and process streams.

E-315 is applicable for the purification of hydrogen-rich gases (e.g. cracked gases), where other metal oxides cannot be used due to their reactivity toward the hydrogen content in the gas stream.

Because E 315 does not promote polymer formation, it is widely used for streams containing acetylenes or dienes, which tend to foul other types of guard bed materials. E 315 is excellent e.g. for C2 and C3 guard beds in steam crackers.

### Operating Temperature

Process and composition dependent: typically ambient up to 60 – 80°C (140 – 175°F). The catalyst itself is stable up to temperatures of 350°C (660°F).

Before using the material, a drying step is recommended. A technical guideline for the drying is available. Please contact BASF for further details.

### Alternative Products

Newer alternatives are combinations of

- PuriStar® R9-PAR S3
- PuriStar® R9-SR S3

Details on these products can be found in the respective product data sheets. Please contact BASF for further details.

A similar product with lead oxide on an extruded alumina carrier and offered under the trade name PuriStar® R9-12 has been discontinued.

### Chemical Analysis

|          |         |
|----------|---------|
| Pb, wt % | 18 – 21 |
|----------|---------|

### Typical Properties

|                    |        |
|--------------------|--------|
| Bulk Density, kg/l | ~ 0,96 |
|--------------------|--------|

|                         |              |
|-------------------------|--------------|
| Crush Strength, lbs / N | Min. 10 / 40 |
|-------------------------|--------------|

### Packaging

- 55 gallon (208 liter) steel drums

### Weight

- 350 lbs / 158,759 kg net per drum

### Shipping Point

- Natchez, Mississippi, USA

## 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, adsorbents and custom catalysts. Priority is given to developing new and improved products that enable the chemical industry transformation to net-zero emissions.

BASF's chemical catalysts and adsorbents business is part of the company's Performance Chemicals division. The division's portfolio also includes refinery catalysts, 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**



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