

PuriStar[®] R9-12 S3

Lead Oxide on Alumina Extrudates

BASF adsorbent R9-12 is a cylindrical adsorbent for removing arsine and sulfur compounds from hydrocarbon streams in the presence of hydrogen or multiple unsaturated components.

BASF PuriStar R9-12 is produced as lead oxide on a proprietary cylindrical carrier with a nominal diameter of 3 mm. It is designed for the removal of trace levels of arsine and sulfur from gaseous and liquid petrochemical feedstocks and process streams.

R9-12 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 R9-12 does not promote polymer formation, it is especially suitable for streams containing acetylenes or dienes, which have a tendency to foul other types of guard bed materials. R9-12 is excellent for C2 and C3 guard beds in steams crackers.

Alternatively a PbO adsorbent is also available in the form of 1/8" spheres and referred to as E 315.

Operating Temperature

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

Typical Properties

| | |
|--------------------|------|
| Bulk Density, g/cc | 0,65 |
|--------------------|------|

| | |
|------------------------|---------|
| Knife Edge Hardness, N | min. 40 |
|------------------------|---------|

Chemical Analysis

| | |
|-----------|-------|
| PbO, wt % | 18-22 |
|-----------|-------|

Packaging

- 1150 l super sacks (Flexible IBC)

Weight

- 650 kg net per super sack

Shipping Point

- DeMeern, The Netherlands

Other packaging or shipping points might be available on request.

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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