

## Active top layer media

### Catalyst top layer media



We supply a complete range of activated products as top grading media to trap catalyst poison. The main advantage of the MTE standard grading materials is the use of regenerated catalyst for the low active grading materials. The CoMo and NiMo active top grading is a cost-effective product for slow removal of the most reactive feed components. Mainly the regenerated catalyst products are produced in spherical or cylindrical rings shapes. We have our own supply chain for regenerated catalyst, but it is also possible to supply your own material, to be used as raw material.

#### Applications

- » Naphtha Hydrotreating (NHT)
- » Distillate Hydrocracker (DHC)
- » Hydrodesulfurization (DHS)
- » Hydrodenitrogenation (HDN)

#### Benefits

- ✓ More catalytic activity in the reactor
- ✓ Lower SOR temperatures
- ✓ Main catalyst bed protection
- ✓ Longer cycle length

Listed below an overview of the sizes on stock and specifications, sizes not mentioned in the tables are available on request.

#### Active top layer rings specifications

| Dimensions | Pore volume | Surface area           | Water absorption | Bulk density            | Crushing strength |
|------------|-------------|------------------------|------------------|-------------------------|-------------------|
| <i>mm</i>  | <i>cc/g</i> | <i>m<sup>2</sup>/g</i> | <i>wt%</i>       | <i>kg/m<sup>3</sup></i> | <i>N</i>          |
| 5          | 0.3 – 0.4   | 140 – 160              | 39               | 720                     | 33                |
| 6          | 0.3 – 0.4   | 140 – 160              | 35               | 700                     | 33                |
| 8          | 0.3 – 0.4   | 140 – 160              | 47               | 650                     | 66                |

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Active top layer wheels specifications

| Dimensions | Pore volume | Surface area           | Water absorption | Bulk density            | Crushing strength |
|------------|-------------|------------------------|------------------|-------------------------|-------------------|
| <i>mm</i>  | <i>cc/g</i> | <i>m<sup>2</sup>/g</i> | <i>wt%</i>       | <i>kg/m<sup>3</sup></i> | <i>N</i>          |
| 19         | 0.3 – 0.4   | 140 – 160              | 35               | 680                     | 103               |

Active top layer spheres specifications

| Dimensions | Pore volume | Surface area           | Water absorption | Bulk density            | Crushing strength |
|------------|-------------|------------------------|------------------|-------------------------|-------------------|
| <i>mm</i>  | <i>cc/g</i> | <i>m<sup>2</sup>/g</i> | <i>wt%</i>       | <i>kg/m<sup>3</sup></i> | <i>N</i>          |
| 3          | 0.3 – 0.5   | 150 – 170              | 50               | 720 ± 10                | > 10              |
| 6          | 0.3 – 0.45  | 140 – 160              | 37               | 700 ± 20                | > 15              |
| 19         | 0.3 – 0.4   | 140 – 160              | 47               | 720                     | 363               |

On request, MTE can make NiMo and CoMo top grading catalyst in any required activity, based on required specifications. We can produce grading materials in any shape, including spheres, cylindrical rings, trilobes, quadralobes or any other extruded shape.

For additional technical data, support or special requests, please contact our sales department.