

Abstract

**Granules based on pyrogenic titanium dioxide, a process
for preparing them and their use**

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Granules based on titanium dioxide with the
characteristics:

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|----|----------------------------|---------------------------------|
| | Average particle diameter: | 10 to 150 μm |
| 10 | BET surface area: | 25 to 100 m^2/g |
| | pH: | 3 to 6 |
| | Compacted density: | 400 to 1,200 g/l |
- 15 They are prepared by dispersing titanium dioxide in water
and spray-drying and silanising.

In the silanised form, the granules have the following
characteristics:

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|----|----------------------------|---------------------------------|
| | Average particle diameter: | 10 to 160 μm |
| | BET surface area: | 15 to 100 m^2/g |
| | pH: | 3.0 to 9.0 |
| 25 | Compacted density: | 400 to 1,200 g/l |
| | Carbon content: | 0.3 to 12.0 wt. % |

- The granules are used, inter alia, as catalyst supports,
in cosmetics, as sun screens, in silicone rubber, in
30 toning powder, in lacquers and colorants, as grinding and
polishing agents and as a raw material for producing glass
and ceramics.