

**CINKARNA****SULPHURIC ACID**

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By titanium dioxide production sulphuric acid is needed as an inlet raw material. Sulphuric acid is produced for internal use and for the market.

We produce:

**Concentrated Sulphuric acid**

| Characteristic                                   | Value of characteristic | Control method  | Comment   |
|--|-------------------------|-----------------|---|
| H <sub>2</sub> SO <sub>4</sub> ( % )             | 96 – 98                 | Internal method | Depends of season (W/S)<br>potentiometric titration |
| Fe ( mg/l )                                      | max. 75                 | Internal method | Spectrofotometric                                   |
| Residue on Ignition ( mg/l )                     | max. 550                | Internal method | gravimetric   |
| Permanganate index<br>KMnO <sub>4</sub> ( mg/l ) | max. 80                 | Internal method | Volumetric  |

**Diluted Sulphuric acid**

| Characteristic                                   | Value of characteristic | Control method  | Comment                  |
|--|-------------------------|-----------------|--------------------------|
| H <sub>2</sub> SO <sub>4</sub> (%)               | 35.0 ± 5.0              | Internal method | potentiometric titration |
| Fe ( mg/l )                                      | max. 25                 | Internal method | Spectrofotometric        |
| Residue on Ignition ( mg/l )                     | max. 175                | Internal method | gravimetric              |
| Permanganate index<br>KMnO <sub>4</sub> ( mg/l ) | max. 40                 | Internal method | Volumetric               |