

# TECHNICAL DATA SHEET

## Iron Oxide Yellow T920

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|---------------------------|---|
| <b>Edition of</b>         | 2012-12-11  |
| <b>Type</b>               | Yellow Pigment                                    |
| <b>Molecular formula</b>  | Fe <sub>2</sub> O <sub>3</sub> . H <sub>2</sub> O |
| <b>Molecular weight</b>   | 177.71  |
| <b>Delivery Form</b>      | Powder  |
| <b>Chemical Class</b>     | Synthetic Iron Oxide                              |
| <b>Color Index</b>        | Pigment Yellow 42(77492)                          |
| <b>CAS No.</b>            | 20344-49-4  |
| <b>Use Recommendation</b> | Coatings  |

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### COLOR VALUES AND TINTING STRENGTH

|            |                     |                   |                           |
|------------|---------------------|-------------------|---------------------------|
| Reference  | Standard: DIN 6174  |                   |                           |
|            | <b><u>Min</u></b>   | <b><u>Max</u></b> | <b><u>Test Method</u></b> |
| Binder     | Test Paste Based On |                   |                           |
|            | R-05                |                   |                           |
| Full Shade |                     |                   | No.001, 2001-01-01        |
| ΔL*        | -0.6                | 0.6               |                           |
| Δa*        | -0.6                | 0.6               |                           |
| Δb*        | -0.6                | 0.6               |                           |
| ΔE*ab      |                     | 0.8               |                           |

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|                                   | <b><u>Min</u></b> | <b><u>Max</u></b> | <b><u>Test Method</u></b> |
|-----------------------------------|-------------------|-------------------|---------------------------|
| Fe <sub>2</sub> O <sub>3</sub>    | 86                |                   | DIN 55913-2               |
| Water soluble substances [%]      |                   | 0.5               | DIN ISO 787-3             |
| Moisture at 105□ [%]              |                   | 1.0               | DIN ISO 787-2             |
| Oil absorption approx [%]         |                   | 35                | DIN ISO 787-5             |
| Sieve residue on 0.045mm mesh [%] |                   | 0.1               | DIN 53195                 |
| Color compared with standard      |                   | Similar-a little  | DIN 6174                  |
| ΔE                                |                   | 0.8               | DIN 6174                  |
| PH Value                          | 3.5               | 7.5               | DIN ISO 787-9             |
| Loss on Heating 1000□ 1/2h        |                   | 14.0              | DIN 55913-2               |
| Density                           |                   | 4.0               | DIN ISO 787-10            |
| Tamped Density                    |                   | 0.6               | DIN ISO 787-11            |

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**STANDARD PACKAGING** 25kg/bag

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