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|  | Technical Data Sheet | |
| | Yellow Iron Oxide pigment | 01.01.2018 |
| Manufacturer | Public Joint-Stock Company SUMYKHIMPROM | |
| Address | 40003 Kharkovskaya str., p/o 12, Sumy, Ukraine | |
| Telephone | + 38 (0542) 67-42-14 | |
| Fax | + 38 (0542) 68-30-05 | |
| E-mail | priomnaya@sumykhimprom.org.ua | |

Product information:

| | |
|---------------------------------|--|
| Application sphere | Used to produce paints and enamels, ceramic, artistic paints, tanning, paper, construction and rubber industries. |
| Appearance | Yellow powder |
| Molecular formula | Fe(OH)O, FeHO ₂ |
| Trade name | Yellow Iron Oxide pigment |
| Registration numbers | Regulation(EC) No.1907/2006 (REACH) 01-2119457554-33-0023, CAS No.51274-00-1, 20344-49-4, EINECS No.257-098-5, 243-746-4 |
| Guaranteed shelf life | 12 months from the date of manufacture |
| Kind of packaging | The pigment is packed in soft specialized disposable containers of various capacities, produced by domestic and foreign manufacturers under the valid ND, stipulating integrity and preserving consumptive properties of the goods, in three-layer paper bags of closed type, made of micro-creped kraft paper, or in other bags conforming to the valid ND, stipulating integrity and preserving consumptive properties of the goods. |
| Durability period | Unlimited |
| Storage and handling conditions | The pigment is stored in closed warehouses on areas with solid flooring, preventing from atmospheric precipitations and soil waters ingress, in manufacturer's packaging, at temperatures from minus 40 °C to +40 °C. It is permitted to store yellow pigment in specialized soft containers on designed site, protected from direct sunlight and atmospheric precipitations, or under shelter. |
| Transport information | The product is transportable by all kinds of vehicles in accordance with carriage regulations, valid for the given kind of shipment. The cargo is not classified as dangerous under international carriage regulations. "Keep Dry" sign is mandatory. |

Physico-chemical indices:

| Indices denomination | Norm for grades | | |
|---|--|---------|-----------|
| | Y -0 | Y -1 | Y -2 |
| Colour a) instrumental method of evaluation - total color difference ΔE , max. | 6 | 6 | 6 |
| b) visual method of evaluation | Within tolerances for paste colours, approved samples for each grade | | |
| Iron compounds in terms of Fe_2O_3 , % by wt., min. | 86 | 85 | 84 |
| Water soluble substances, % by wt., max. | 0,3 | 0,5 | 0,8 |
| Volatiles, % by wt., max. | 0,5 | 1,0 | 1,5 |
| pH of water suspension | 4,5-7,0 | 4,0-7,0 | 4,0-7,0 |
| Oil absorption, g/100g of pigment, max. | 30-50 | 35-60 | 35-60 |
| Coverage potential, g/m^2 , max. | 15 | 20 | 20 |
| Relative tinting strength, % by wt., min. | 100 | 95 | 95 |
| Dispersibility during 30 minutes, mkm, max. | 20 | 25 | 25 |
| Wet sieving residue on screen 0063 mesh, %, max. | 0,08 | 0,20 | 0,30 |
| Dry sieving residue on screen 016 mesh, %, max. | 0,05 | 0,05 | Not rated |