

## VERSAL ORANGE RA 01



### Characteristic

C. I.	Pigment Orange 73
C. I. No.	561170
CAS No.	84632-59-7
Chemical Class	Diketopyrrolopyrrole

### Properties

Oil Absorption [ml/100 g]	49
Density [g/cm <sup>3</sup> ]	1.2
Bulking Volume [l/kg]	2.9

### Fastness

Linseed Oil	5
White Spirite	5
DEHT	5
Xylene	5
Acetone	4
Butylacetate	4
Ethanol	4-5
Water	5
HCl 2.5%	5
NaOH 2.5%	5
Light - Full Shade	8
Light - 1/1	8
Light - 1/3	7-8
Weather - Full Shade	5
Weather - 1/1	5
Weather - 1/3	4-5
Overspray	4-5
Heat Resistance [°C]	C 200

C - in Coatings

### Application Possibilities

Paints - Industrial	●
Paints - Automotive	●
Paints - Decorative	○
Paints - Powder Coatings	○

● main application

○ side application

#### Other Informations

Shelf Life

48 months

#### Testing methods

##### Density

- determined by ČSN EN ISO 787-10: 1997 (67 0520) in  $\text{g/cm}^3$

##### Bulking Volume

- denotes the volume of 1 kg of loosely poured pigment, expressed in litres

##### Oil Absorbtion

- determined by ČSN EN ISO 787-5: 1997 (67 0520) in ml/100 g pigment

##### Fastness to Solvents

- colouring of solvent after 24 h at 20 °C according to ISO grey scale is determined; degree 1 denotes the lowest fastness, degree 5 the highest one

##### Fastness to Reagents

- colouring of reagents after 24 h at 20 °C according to ISO grey scale is determined; degree 1 denotes the lowest fastness, degree 5 the highest one

##### Light Fastness - Xenotest

- determined by ČSN EN ISO 105-B02: 2000 (80 0147) and evaluated in 1/3 and 1/1 of standard depth and in full shade; determined according to blue scale, by it degree 1 denotes the lowest fastness, degree 8 the highest one

##### Weathering Fastness - Xenotest

- determined by ČSN EN ISO 105-B04: 1998 (80 0171) and evaluated in 1/3 and 1/1 of standard depth and in full shade; determined according to grey scale, by it degree 1 denotes the lowest fastness, degree 5 the highest one

##### Overspray Fastness

- assessment of bleeding into a white nitrocellulose combination lacquer for 60 min. at 70 °C against ISO grey scale; by it degree 1 denotes the lowest fastness, degree 5 the highest one

##### Heat Resistance

- the values quoted indicate up to what temperature the pigments do not significantly alter; these are guide values which can be influenced by the binder used and the period of exposure to high temperature

##### Migration Fastness

- assessment of bleeding into a white polyvinylchloride sheet for 24 h at 70 °C against ISO grey scale; by it degree 1 denotes the lowest fastness, degree 5 the highest one; no data means that the pigment is not recommended for dyeing of PVC

##### Fastness to plasticizers

- colouring of plasticizer (diethylhexylterephthalate) after 24 h at 20 °C according to ISO grey scale is determined; degree 1 denotes the lowest fastness, degree 5 the highest one