VERSAL RED F5RK

TiO_2 1:1

TiO_2 1:10

Characteristic	
C. I.	Pigment Red 170
C. I. No.	12475
CAS No.	2786-76-7
Chemical Class	Naphthol AS

Properties	
Oil Absorption [ml/100 g]	57
Density [g/cm^3]	1.4
Bulking Volume [l/kg]	4.5

Fastness	
Linseed Oil	5
White Spirite	5
DEHT	4-5
Xylene	4-5
Acetone	3
Butylacetate	4
Ethanol	4
Water	5
HCl 2.5%	5
NaOH 2.5%	5
Light - Full Shade	6D
Light - 1/1	6D
Light - 1/3	5
Weather - Full Shade	3D
Weather - 1/1	3D
Weather - 1/3	2
Overspray	4
Heat Resistance [°C]	P 240
Migration	4-5

P - in Plastics, D - Duller

Application Possibilities	
Printing Inks - Nitrocelulose	●
Printing Inks - Water based	●
Printing Inks - Decorative Laminates	○
Printing Inks - Offset	○
Printing Inks - UV Curing	●
Paints - Decorative	●
Paints - Industrial	●
Paints - Powder Coatings	●
Plastics - Polyolefines	●
Plastics - PP Fibers	○
● main application	○ side application

Other Informations	
Shelf Life	48 months

Testing methods

Density
- determined by ČSN EN ISO 787-10: 1997 (67 0520) in v 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 acording to ISO grey scale is determined; degree 1 denotes the lowest fastness, degree 5 the highest one