



**Product Description**

TICO® Red 642 is a yellow shade red with excellent fastness properties. It has high tinctorial strength and opacity. Due to its brilliant and clean color shade, it can be used as a direct replacement for molybdate orange pigments.

Appearance	Red powder
------------	------------

**Product Description**

	Unit	Value	Test Method
Hue angle [full shade]		32.0	acc. to DIN EN ISO/CIE 11664-4
1/3 SD reduction ratio		1:2.3	acc. to DIN 53235-2

**Technical Data**

	Unit	Value	Test Method
Density	[g/cm <sup>3</sup> ]	typ. 2.3	acc. to ISO 787-10
Bulk volume	[l/kg]	typ. 0.3	
Specific surface	[m <sup>2</sup> /g]	typ. 8.7	acc. to DIN ISO 66132
Oil absorption	[g/100g]	typ. 19	acc. to ISO 787-5

**Fastness Properties**

Resistance to Chemicals		
	Value	Test Method
Acid	5	rating acc. to DIN EN ISO 105-A03
Alkali	5	rating acc. to DIN EN ISO 105-A03
Water	5	rating acc. to DIN EN ISO 105-A03
Butanol	4 - 5	rating acc. to DIN EN ISO 105-A03
Butylacetate	4 - 5	rating acc. to DIN EN ISO 105-A03
Xylene	4 - 5	rating acc. to DIN EN ISO 105-A03
MEK	4 - 5	rating acc. to DIN EN ISO 105-A03
White spirits	4 - 5	rating acc. to DIN EN ISO 105-A03

Acid/alkali resistance: Pigment was dipped into hydrochloric acid (10%) or soda solution (10%). Rating with gray scale: 1=poor, 5=excellent.

Solvent resistance: Product was dipped into solvent. Rating with gray scale: 1=poor, 5=excellent.

Tds-ti\_642-01\_02

Our application information and any other information in this document as well as our product specifications are based on our current state of knowledge at the Revision Date mentioned in the respective document. They are non-binding and cannot be taken as a guarantee. The processing company must establish the suitability of individual products itself. As their use lies beyond our knowledge and control, we cannot accept any liability relating to the use of our products in particular applications. In addition to that, the legal rights of third parties must always be considered. The product specification agreed between the customer and ourselves is the basis upon which our general sales and delivery conditions are set and is the deciding factor concerning any liabilities. Our standard specification is then valid if no specification has been agreed upon between the customer and ourselves.

	Value	Test Method
Overpainting fastness	5	rating acc. to DIN EN ISO 105-A03
Light fastness [full shade]	8	acc. to DIN EN ISO 16474-2/DIN EN ISO 105-B02
Weather fastness [full shade]	5	acc. to DIN EN ISO 16474-2/DIN EN ISO 20105-A02
Weather fastness [1/3 SD]	4 - 5	acc. to DIN EN ISO 16474-2/DIN EN ISO 20105-A02

Overpainting: Tested in alkyd/melamine system with 30 minutes baking time at 160 °C. Rating with gray scale: 1=poor, 5=excellent.

Light Fastness: Tested in water based automotive system. Rating with 8-step wool scale: 1=poor, 8=excellent.

Weather fastness: Tested in water based automotive system. Rating with gray scale after 2000 h accelerated weathering: 1=poor, 5=excellent.

**Application Profile**

Automotive coatings	+++
General industrial coatings	+++
Plastics	

+++ Excellent choice

++ Good choice

+ Possible choice

**Packaging and Handling**

Packaging	15 kg paper bags
-----------	------------------

**Safety**

Product contains diarylide pigments. These pigments should not be used at processing temperatures exceeding 200 °C due to potential cleavage to 3,3'-dichlorobenzidine (DCB) under these conditions.

Tds-ti\_642-01\_02

Our application information and any other information in this document as well as our product specifications are based on our current state of knowledge at the Revision Date mentioned in the respective document. They are non-binding and cannot be taken as a guarantee. The processing company must establish the suitability of individual products itself. As their use lies beyond our knowledge and control, we cannot accept any liability relating to the use of our products in particular applications. In addition to that, the legal rights of third parties must always be considered. The product specification agreed between the customer and ourselves is the basis upon which our general sales and delivery conditions are set and is the deciding factor concerning any liabilities. Our standard specification is then valid if no specification has been agreed upon between the customer and ourselves.