



**Lubrizol**

PAINTS & COATINGS

# SOLSPERSE™ W320

WATER-BASED DISPERSANT FOR TRANSPARENT IRON OXIDE PIGMENTS

## **Polymeric Dispersant for Aqueous Paints, Inks and Concentrates**

Solsperse™ W320 is a 40% active polymeric hyperdispersant designed for rapid wetting, dispersion and stabilization of transparent iron oxide used in automotive coatings and wood finishes. Solsperse W320 is also expected to be effective across a wide range of inorganic pigments, including TiO<sub>2</sub>. It provides outstanding transparency, high pigment loadings and excellent stability, especially when used in binder-free dispersions. Coatings formulated with Solsperse W320 deliver very high-performance properties in both 2K and 1k water-based finishes.

### **Higher Transparency**

With its optimized multi-anchor structure Solsperse W320 provides the perfect balance of faster particle size reduction and stabilization required to maximize transparency in high-performance systems.

### **Improved Milling Efficiency**

Solsperse W320 provides rapid particle size reduction which translates to less time and energy required to reach a desired level of transparency.

### **Robust Applicability**

Solsperse W320 has been proven effective on a number of red and yellow transparent iron oxides. It is also expected to be effective on titanium dioxide and other inorganic pigments for general use.

WHAT WE ADD MAKES  
THE DIFFERENCE.™

- FASTER MILLING TIMES
- RAPID PARTICLE SIZE REDUCTION
- HIGHER TRANSPARENCY
- OUTSTANDING COLOR DEVELOPMENT
- IMPROVED STABILIZATION OF INORGANIC TRANSPARENT PIGMENTS

[www.lubrizol.com/coatings](http://www.lubrizol.com/coatings)

## FEATURES & BENEFITS

- FASTER PARTICLE SIZE REDUCTION
- OUTSTANDING TRANSPARENCY
- EXCELLENT STORAGE STABILITY

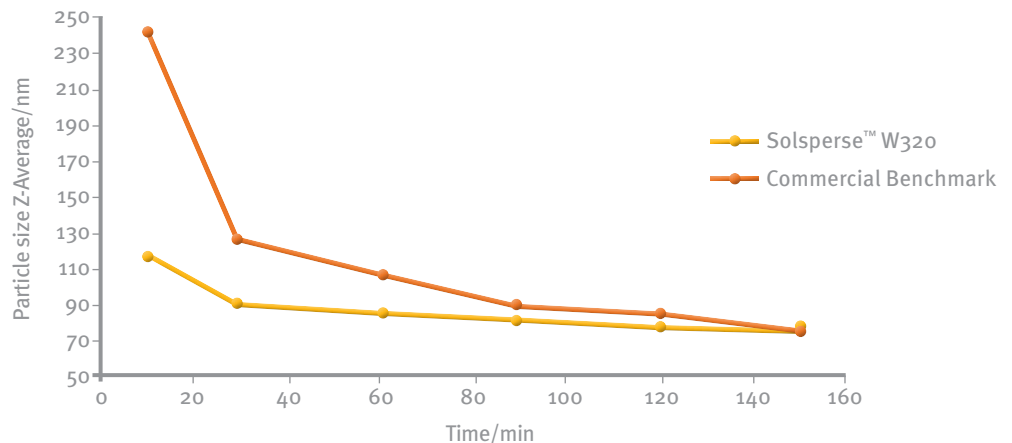
### Using Solsperse™ W320

Manufacturing dispersions of transparent iron oxides is challenging, Transparent iron oxides used in wood-finishes or automotive coatings are much smaller than standard iron oxides which make them agglomerate very strongly. They have a needle like shape and are more challenging to disperse. Highly functionalized anchor groups are essential for fast-wetting and stabilization. Due to the high functionality of the anchor segment, pigment concentrates formulated using Solsperse W320 are recommended to be pH adjusted to (pH: 8.0-8.5) prior to pigment addition. pH adjustment will ensure outstanding transparency and stability are retained in the let-down stage.

### Improved Transparency



### Improved Milling Efficiency



### Lubrizol Advanced Materials, Inc.

9911 Brecksville Road, Cleveland, OH 44141  
800.380.5397



The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained. The information is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance. Because of the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Lubrizol Advanced Materials, Inc. shall not be liable for and the customer assumes all risk and liability of any use or handling of any material beyond Lubrizol Advanced Materials, Inc.'s direct control. The SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.

Trademarks owned by The Lubrizol Corporation or its affiliates. ©The Lubrizol Corporation 2019, All Rights Reserved.

19-171356

Visit us at:  
[www.lubrizol.com/coatings](http://www.lubrizol.com/coatings)