

Data Sheet

# VIAVI

## WRS Wetted Light-Interference Pigments

ChromaFlair® pigments are unique, multi-layer pigment flakes that give paints, coatings, plastics, and textiles the ability to change color when viewed from different angles. With ChromaFlair WRS Wetted pigment waterborne paints and coatings can be formulated with excellent shelf stability.

Each flake exhibits a variety of colors depending on the angle at which it is viewed and the angle of incident light. The pigment's dramatic color effect is visible in a wide variety of lighting conditions and works with both high-and low-gloss applications. It is easily incorporated into waterborne paints and coatings used in automotive, architecture, consumer electronics, sports equipment, apparel.

### Applications

ChromaFlair WRS Wetted pigments are suitable for waterborne coatings and paints used on:

- Automobiles
- Architectural Finishes
- Sports Equipment
- Apparel
- Consumer Electronics
- Natural and Synthetic Leather

## Specifications

Parameter	Red/Gold 000 WRS Wetted	Silver/Green 060 WRS Wetted	Gold/Silver 080 WRS Wetted	Silver/Blue 160 WRS Wetted	Green/Purple 190 WRS Wetted	Cyan/Blue 225 WRS Wetted	Cyan/Purple 230 WRS Wetted	Blue/Red 280 WRS Wetted	Black/Red 315 WRS Wetted	Magenta/Gold 334 WRS Wetted
Chemical Nature	Silica Encapsulated, Magnesium Fluoride Coated Aluminum wetted with propylene glycol mono methyl ether (CAS 107-98-2)									
Physical Form	Paste									
<b>Typical Properties</b>										
Particle Size: D10 <sup>2</sup>	≥5.5um	≥5.5um	≥5.5um	≥5.5um	≥5.5um	≥5.5um	≥5.5um	≥5.5um	≥5.5um	>5.5um
Particle Size: D50 <sup>2</sup>	20	20	20	20	20	20	20	20	20	20
Particle Size: D99 <sup>2</sup>	<67	<67	<67	<67	<67	<67	<67	<67	<67	<67
Weight Percent Solvent <sup>3</sup>	32%	23%	33%	26%	25%	30%	27%	31%	24%	32%
Weight Percent Silica <sup>4</sup>	10.5%	9.0%	11.1%	7.6%	8.0%	9.1%	8.5%	9.8%	6.4%	10.3%
Density as Supplied (H <sub>2</sub> O = 1.0 g/cm <sup>3</sup> )	1.73	1.95	1.70	1.88	1.90	1.77	1.85	1.75	1.93	1.73
pH	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
Conductivity, μS/cm	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Heat Stability	<200°C	<200°C	<200°C	<200°C	<200°C	<200°C	<200°C	<200°C	<200°C	<200°C

<sup>1</sup> VIAVI Test Method 11112015-XSPR-74S6 and 05042004-RYXH-VALR

<sup>2</sup> VIAVI Test Method 04122018-YRDA-MJPX

<sup>3</sup> VIAVI Test Method 04142004-2MUS-ZL14

<sup>4</sup> VIAVI Test Method 04252016-0IM1-1ZV8

Product Code	Part Number	Appearance
Red/Gold 000WRS Wetted	30190617	Red face traveling through orange and gold
Silver/Green 060WRS Wetted	30190613	Silver face with visible green and purple at extreme angles
Gold/Silver 080WRS Wetted	30190618	Chromatic gold on face, traveling through green to steel blue
Silver/Blue 160WRS Wetted	30190610	Silver-blue face traveling to aqua and purple at extreme angles
Green/Purple 190WRS Wetted	30190614	Green face traveling through purple, magenta and gold
Cyan/Blue 225WRS Wetted	30190611	Cyan face traveling to deep chromatic blue and purple.
Cyan/Purple 230WRS Wetted	30190619	Cyan face traveling through purple, magenta and gold
Blue/Red 280WRS Wetted	30190615	Blue face traveling through purple, red and orange
Black/Red 315WRS Wetted	30190612	Dark face quickly shifting to red, orange and gold
Magenta/Gold 334WRS Wetted	30190616	Magenta face traveling through red and orange

## Ordering Information

For more information on this or other products and their availability, please contact your local VIAVI account manager or VIAVI directly at +1 800 254 3684 or via e-mail at [ospcustomerservice@viavisolutions.com](mailto:ospcustomerservice@viavisolutions.com).

- The information furnished above has been compiled from sources considered to be dependable and is believed to be accurate. However, users should conduct confirming tests in their own plant or laboratory to determine suitability, as conditions for use are not under our control. VIAVI makes no guarantee as to the results obtained in using the material, and shall not be held liable for any damages resulting from mixing or further processing that is inconsistent with recommended usage. Because we cannot control the application, use, or processing of the products, we cannot accept responsibility. No statement contained herein should be construed as a recommendation for any use which would violate any patent rights.
- Additional safety information is contained in the product's Material Safety Datasheet, which all users are strongly urged to consult.
- Approvals: ChromaFlair pigment is made entirely of components registered with leading international authorities including EINECS, MITI, TSCA, DLS, Canadian DSL and AICS, and does not require its own registration.



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