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PRODUCTS & SERVICES

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REQUEST PRODUCT INFO

PB29 Ultramarine Blue Pigments offer a unique reddish blue shade that make whites "whiter," greys "more blue" and blacks "deeper." It is semi-transparent to visible light and transparent to NIR ("cool" pigment), but their cool performance is highly dependent on the substrate and formulation.

Properties include ease of dispersion with excellent dimensional stability resulting in no warping or shrinkage.

ULTRAMARINE BLUE (PB29) PRODUCT CHARACTERISTICS

HEAT FASTNESS	LIGHT FASTNESS	WEATHER FASTNESS	ACID FASTNESS	ALKALI FASTNESS	CEMENT COMPATIBILITY	SOL' FAS'
350°C, 5 min.	Excellent (8 on blue wool scale)	Excellent (4-5 on grey scale)	Low Except Acid Resistance Series	Excellent	Low Except Nubicem Series	Exce

ULTRAMARINE BLUE (PB29) RECOMMENDED PIGMENTS

- **P series** – The basic Ultramarine Blues for general applications, including plastics
- **Nubix series** - The high dispersibility, narrow colorimetric tolerance, low moisture and low free Sulfur content Ultramarine Blues
- **Nubiperf series** - The very high dispersibility, narrow colorimetric tolerance, low moisture and low free Sulfur content Ultramarine Blues
- **Nubiperf SRD** – The Super Reddish Ultramarine Blue to:
 - 1) Reach unique reddish blue shades
 - 2) Avoid the use of tiny, problematic amounts of red/violet organic pigments to shade blues
 - 3) Tint whites and reduce polymer's yellowness with a unique, neutral shade
- **Nubiflow** - The very high dispersibility, narrow colorimetric tolerance , low moisture and low free Sulfur content Ultramarine Blue, specially recommended for fibers and very thin films
- **Nubiperf FCP (Food and Cosmetics Packaging) series** - The very low free Sulfur content, very high dispersibility, narrow colorimetric tolerance and low moisture content
- **Ultramarine Blues**, specially recommended for sensitive to odor and taste applications
- **Nubiperf AR (new generation acid resistant grade)** - Encapsulated grade that shows high acid resistance in use and good dispersibility, specially recommended for PVC, POM or any other polymer in contact with acids or that can release acids during service life

- **LD series** – The low dust, free flowing Ultramarine Blues for Plastics
- **T series** – The silicone coated Ultramarine Blues for Inks and specialty plastics
- **C series** – the high purity Ultramarine Blues for cosmetics
- **Nubicoat series** – Specifically designed and quality controlled for coatings
 - **Nubicoat HWR (High Weather Resistance)** – New generation, encapsulated Ultramarine Blue to enhance acid and weather fastness, suitable for indoor and outdoor applications
 - **Nubicoat HTS (High Tinting Strength) and Nubicoat HRD (Highly Reddish)** – For indoor and outdoor applications (the latter, only with highly cross-linked resins and/or highly stabilized-to-UV systems and/or high resistance to industrial/acid environment systems)
- **Nubicem series** – Specifically designed to be compatible with cementitious formulations, highly alkaline coatings, paints over highly alkaline substrates and lime paints; quality control in cement
 - **Nubicem B-101** – Cement compatible Ultramarine Blue, for indoor and outdoor applications (the latter, only when the contact with water or high humidity is not severe i.e. in dry areas or when the formulation is highly hydrophobic)
 - **Nubicem B-201** – Cement compatible Ultramarine Blue modified with Cobalt Blue, for the most demanding applications



ULTRAMARINE BLUE (PB29) APPLICATIONS:

- **Plastics:** Polyolefins, PS, ABS, engineering polymers, PVC, silicones, and rubber
- **Cool Coatings:** Liquid architectural and industrial, powder, coil and stoving coatings
- **Industrial:** Cement and concrete
- **Cosmetics**
- **Artists' colors**
- **Leather tanning**

VALUE ADDED SERVICES

Advanced Color Matching

Ferro technicians combine their talents with today's most advanced computer color analysis equipment to offer our customers precise color-matching services. Our spectrophotometry process minimizes metamerism, speeds up color matching, ensures consistent quality and helps identify the pigment combination that produces any given color for the lowest possible cost and right performance characteristics, including outdoor durability and NIR reflectance.

Ferro can match your color chip/drawdown or we can refer to complete files of OSHA, Munsel, RAL, Federal Standard 595 Series or Pantone® matching systems to achieve your reference number. All of our colors are matched to Ferro standards or your reference sample, ensuring precise color reproduction from order to order.

Providing Formulation Guides/Assistance with Startup Formula Creation

We assist customers in their product development efforts to ensure regulatory compliance (e.g., usage in food, cosmetics) and desired performance including anticorrosion, outdoor durability and NIR reflectance.



Local Laboratory Testing

Our laboratory facility teams support customers' production and development activities, including accelerated corrosion testing, weatherability testing, heat build-up and total solar reflectance testing and migration testing.

Custom Formulations

We work closely with our customers to co-innovate and develop customized high-performing and economical coloring solutions based on application requirements and operational processing needs, including custom formulations for paints, coatings, cement, concrete, inks, ceramics, glass, leather, metal and plastics.

Custom Manufacturing

Ferro provides custom manufacturing services to add value to specific projects, particularly in cases which our production facilities and know-how allow our customers to reach cost-efficiency targets or attain higher performing final products.

Toll Manufacturing

For customers who need additional manufacturing capabilities, we provide a full range of manufacturing capacities, from pilot runs to full-scale production.

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