Novel Silver Metallics for Autonomous Driving
For many vehicle manufacturers, autonomous driving is the mode of transportation of the future. This technology places special demands on the painting of add-on parts and the pigments used for them. Conventional metallic pigments absorb or reflect radar beams and thus damp the radar radiation based on certain pigment concentrations. It was therefore long assumed that the established solid silver shades would no longer be feasible for autonomously driven vehicles due to their comparatively high pigmentation with metal pigments.

The combination of selected ECKART metallic pigments with the innovative pigments of SYMIC OEM Opaque Silver produces highly attractive silver shades with only slight damping.

Novel Silver Metallics for Autonomous Driving

ECKART is the first effect pigment manufacturer worldwide to present a product solution for metallic coatings.
SYMIC OEM Opaque Silver successfully combines two different pigment worlds: The metallic look and flop of an aluminum pigment along with the functional properties and radar transparency of a pearlescent pigment.

The combination of these two characteristics makes the novel pigments perfectly suited for use in radar-transparent systems. ECKART has already been working for some time on reproducing highly brilliant silver full tones by mixing aluminum pigments with SYMIC OEM Opaque Silver. Take advantage of the unique benefit of obtaining metallic and pearlescent pigments specifically for autonomous driving from ECKART – from a single source. We would be happy to advise you individually on the development of color shades with our effect pigments.

The advantages of SYMIC OEM Opaque Silver at a glance:

- Highly brilliant metallic look with outstanding flop index
- Brightest and most brilliant optics on the market
- Highest possible flexibility in color design
- Strong opacity
- No EMI shielding
- No radar damping
- Excellent chemical stability
- Optimal incorporation in all common coating systems (solvent-, water-based, UV-curing)
- High shear stability
- Excellent weather and humidity resistance
- Excellent intercoat adhesion
- Very narrow particle size distribution
- Long product shelf life of 10 years
The comparison with competitor products in a similar colour space clearly shows: SYMIC OEM Opaque Silver scores with its impressive brightness and metallic character. Especially when formulating highly brilliant metallic shades, these properties prove to be an optical and technological advantage over the competition.

**Optical Comparison**
SYMIC OEM Opaque Silver with a clear advantage versus competitive products

Comparison of opacity (max. 100 %), brightness, flop and D 50 of four pigments with each other, at the same layer thickness.

**Technical Data**

<table>
<thead>
<tr>
<th>SYMIC OEM</th>
<th>Particle Size Distribution</th>
<th>Article Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fine Opaque Silver</td>
<td>7 µm – 25 µm</td>
<td>020505</td>
</tr>
<tr>
<td>Medium Opaque Silver</td>
<td>12 µm – 38 µm</td>
<td>035638</td>
</tr>
</tbody>
</table>

SYMIC OEM Opaque Silver is offered in powder form (1 kg / 5 kg / 25 kg) in two finenesses: SYMIC OEM Medium Opaque Silver and SYMIC OEM Fine Opaque Silver.

For more information about our products, visit us at www.eckart.net or send us an e-mail: info.eckart@altana.com

We are ready for the future. Are you?
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