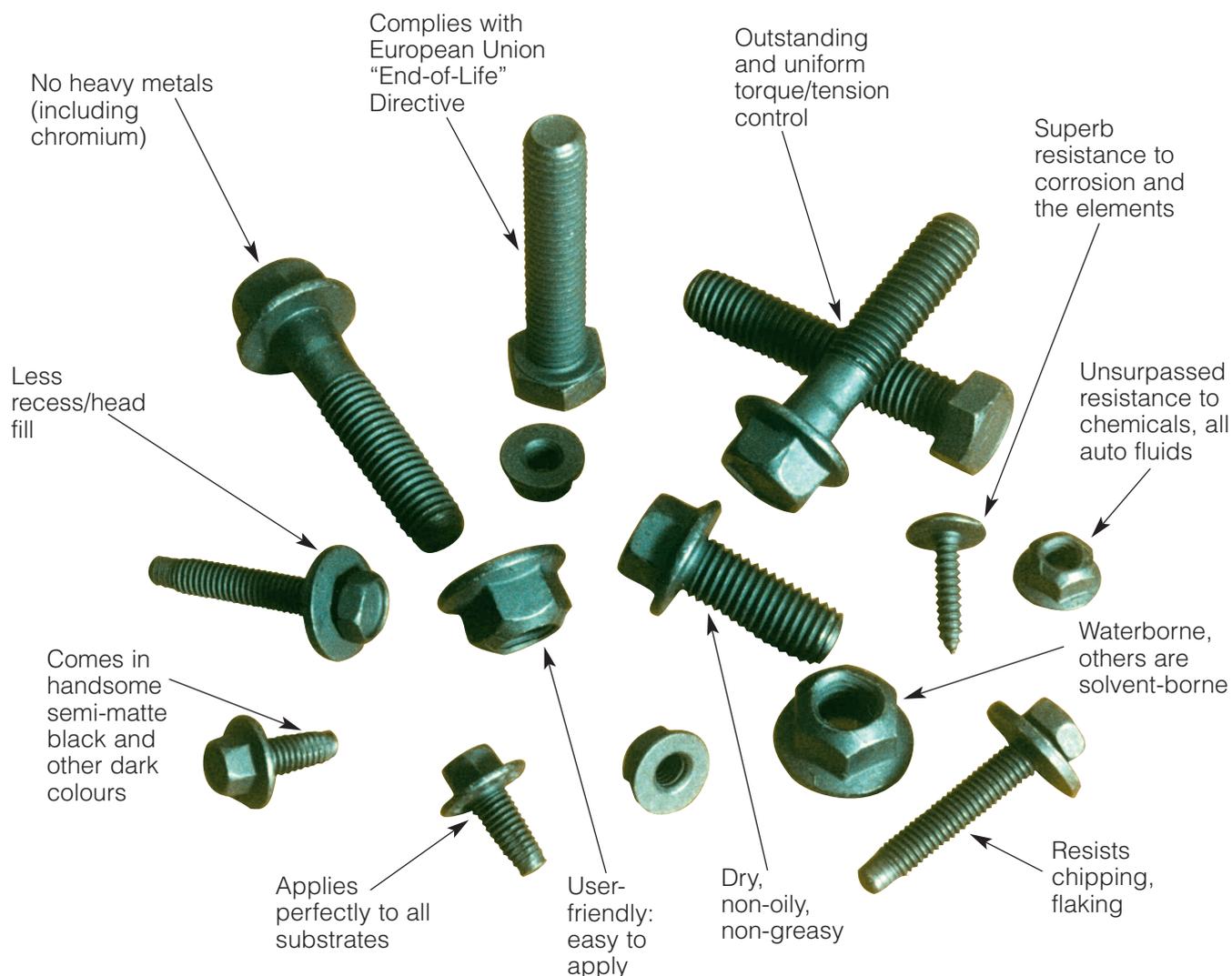


# Xylan<sup>®</sup> 5420 specified by Automotive Manufacturers Worldwide



No fastener-class coating offers all of the advantages of Whitford's new Xylan 5420 (an economic alternative to Xylan 5230). Xylan 5230 has already been specified by automotive companies worldwide as an approved engineering material for their automotive fasteners.

This new coating, when used in combination with a zinc phosphate primer, offers a

cost-effective, high-performance coating with superior salt spray results and it's environmentally friendly too.

Whitford also offers many other dip/spin coatings with a wide range of colours (including translucent and waterborne options).

For a detailed description of Whitford's new Xylan 5420, see the reverse side.

**Whitford**

Makers of the world's largest, most complete line of fluoropolymer coatings

# **XYLAN® 5420 SEMI-MATTE BLACK**

## **Water-based Fastener-class Coating**

### **General Description**

Xylan 5420 is a semi-matte black, water-based, "chrome-free" fastener coating material developed for the worldwide automotive market. It is a resin-bonded, thermally-cured fluoropolymer coating. Xylan 5420 is specially formulated for application to small fasteners by dip/spin over a zinc-phosphate pretreatment. Its primary function is both to facilitate uniform driving torque and provide excellent corrosion resistance.

### **Substrate Information**

Xylan 5420 can be applied to many types of substrate materials such as aluminum, brass, high-alloy steel, carbon steel, stainless steel, titanium, zinc plating and zinc phosphate.

### **Corrosion Resistance**

Xylan 5420 applied in two coats (0.6 mil) over zinc-phosphated carbon steel exceeds 480 hours with no red rust in ASTM B117 and over 840 hours per USCAR-1.

### **Physical Properties**

|                         |                            |
|-------------------------|----------------------------|
| Pencil hardness         | 2 - 3 H                    |
| Dielectric strength     | 500 V/mil                  |
| VOC content/series avg. | 3.0 lbs/gal<br>(330 gms/l) |
| Gloss                   | low                        |
| UV resistance           | fair                       |

### **Use Temperature**

Xylan 5420 can be used continuously from -58°F/-50°C to +350°F/175°C and can survive up to +400°F/204°C intermittently.

### **Chemical Resistance**

Xylan 5420 is resistant to most automotive fuels, lubricants and fluids. It has excellent resistance to acids and alkalines.

### **Applicable Specifications**

Xylan 5230 is an approved coating material for the following specifications (Xylan 5420 is an alternative material for Xylan 5230):

- Daimler/Chrysler Corporation: PS-7001
- Ford Motor Company:  
WSD-M21P10 B2 (S303);  
WSD-M21P10 B3 (S306);
- General Motors: 6046M

### **Application Methods**

Easily applied via dip/spin, tumble/spray or hand spray. For more information, refer to the Product Data Sheet.

### **Performance Characteristics**

- Meets SAE/USCAR 1 (840+ hours)
- Self-lubricating
- WZ101 "K" factor: .153 +/- .01 @ 25.3 kN
- Thickness: 16-20 microns
- Dry-to-touch
- Chemical-resistant
- Low risk for hydrogen embrittlement

### **Advantages**

- Integral friction modification
- Plastic-compatible
- Cr<sup>+6</sup> free
- Compatible with thread adhesives and sealants.
- Globally accepted
- Controlled applicator base

# **Whitford**

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## **Whitford's Xylan® 5420 New Water-based Fastener-Class Coating**

FOR IMMEDIATE RELEASE, Elverson, PA June 2010. In the search for “greener” coatings, automotive manufacturers worldwide are turning to Whitford's Xylan 5420. This new coating, when used in combination with a zinc phosphate primer, offers a cost-effective, high-performance coating with superior salt spray results and it's environmentally friendly too.

### **What makes Xylan 5420 unique?**

The new waterborne, fastener-class coating has a variety of characteristics that distinguish it from others, none of which offers all that Xylan 5420 does. These include:

1. It has a semi-matte black appearance that is preferred by the automotive manufacturers.
2. It is dry, non-oily and non-greasy.
3. It has outstanding torque/tension control characteristics.
4. It has superb resistance to corrosion and the elements.
5. It has unsurpassed resistance to chemicals, including all automotive fuels, lubricants and fluids.
6. It resists chipping and flaking.
7. It's user-friendly: easy to apply.
8. It works perfectly on many substrates, including aluminum, brass, high-alloy steel, carbon steel, stainless steel, titanium, zinc plating, zinc phosphate, etc.
9. Damage to the top coat does not result in "bright spots" showing.
10. And lastly, it is absolutely free of all restricted heavy metals, including chromium.

For a list of recommended applicators, contact Whitford at [sales@whitfordww.com](mailto:sales@whitfordww.com) or find our other locations on our website at [whitfordww.com](http://whitfordww.com). We are anxious to speak with you.

Whitford, a privately held company, has manufacturing facilities in 8 countries, offices in 12 more, and agents in an additional 25. Whitford manufactures the largest, most complete line of fluoropolymer coatings in the world. Visit Whitford on the web at: [whitfordww.com](http://whitfordww.com).



*Fasteners coated with Xylan 5420 are environmentally friendly.*

*For more details, contact your Whitford representative  
or email us at [sales@whitfordww.com](mailto:sales@whitfordww.com)*

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