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## Xylan 1070 datasheet

Xylan coatings have unique properties Xylan coatings differ from traditional fluoropolymer coatings in one very important aspect — they are composite materials. Lubricants with the lowest known coefficient of friction are combined in a matrix with the newest high-temperature organic polymers. United, these polymers form "plastic alloys" with highly beneficial properties: 1. Low friction: as low as 0.02. 2. Wear resistance: even under extreme pressures. 3. Corrosion and chemical resistance: in most environments. 4. Weather resistance: acid rain, saltwater, road salts and chemicals, many hostile environments. 5. Wide range of operating temperatures: from -251° to +287°C 6. Flexible curing schedule: ambient to 398°C. 7. Wide color range: color-code your product. 8. Pliability: Xylan coatings will bend freely and repeatedly without breaking. 9. Machinability: apply multiple coats of Xylan coating (most formulations) and mill to specification. 10.Excellent adhesion: to most metals, plastics, ceramics, wood, even to itself (most formulations). Xylan 1070 provides the optimum combination of low friction, wear resistance and high-temperature release with corrosion inhibitors for better corrosion resistance. It excels in applications requiring a dryfilm lubricant effective against a broad spectrum of chemicals and corrosives. Physical Properties Chemical Resistance Del's Plating offers a variety of Whitford Xylan coatings including 1014, 1052, 1070, 1400, 1424, and 1425. Xylan is typically used in non-stick applications to reduce friction while improving wear resistance caused by the fluoropolymers and binding resins that make up the composition. Xylan, itself, is able to withstand heavy loads and high temperatures and is known for its' flexible curing schedule, machinability, corrosion resistance, and adhesion capabilities. Here at Del's Plating, we specialize in metal Xylan coatings of all sizes. We can have your products Xylan coated in the shortest amount of time possible. Offering Xylan 1014, 1425, 1052, and 1070 coatings and more, contact Del's Plating today about your Xylan coating needs! Xylan Coatings: Properties & Applications P-92 Primer Click to enlarge Xylan 1014 Coating 1014 Main Properties High temperature resistant. Low coefficient of friction. Abrasion / wear resistant. Dry film lubricant. Thermoset. Wide use temperature. Typical Xylan 1014 Applications Any mating surface which requires lubrication. Hinge pins. Piston casing. Compressors. Fasteners. Colors Black, Green, Blue, Pumpkin Orange, Bright Yellow Click to enlarge Xylan 1052 Coating Main Properties for Xylan 1052 High temperature resistant. High load carrying capacity. Abrasion / wear resistant. Thermoset. Typical Applications Applications to prevent wear of mating surfaces under extreme load such as bearings, sealing rings, and valve springs. Colors Black, Green, Olive Green, Blue, Gray Click to enlarge Xylan 1070 Coating Main Properties High temperature resistant. Low coefficient of friction. Abrasion / wear resistant. Thermoset. Wide use temperature. Corrosion resistant. Controlled torque. Typical Xylan 1070 Applications Threaded fasteners. Colors Blue, Gray Xylan 1400 Coating Main Properties Corrosion resistant. Chemical resistant. Weathering resistant. Acid rain resistant. Typical Applications Threaded fasteners for the building, chemical process, oil and off shore industries. Colors Black Xylan 1424 Coating Main Properties Dry film lubricant. Corrosion resistant. Typical Applications Any mating surface which requires lubrication. Hinge pins. Piston casing. Compressors. Threaded fasteners. Colors Black, Green, Blue, Haze Gray Xylan 1425 Coating Main Properties Dry film lubricant. High load carrying capacity. Typical Applications Extreme pressure, low speed applications. Colors Black, Green, Blue Click here to submit a Request for Quote or call us today at (877) 311-0123 PTFE or PolyTetraFluoroEthylene was invented in 1938 by an employee at DuPont USA. It was accidentally discovered that a refrigerant based on fluoropolymer had polymerized into a solid substance. It appeared that the agent was resistant to acids, solvents and high and low temperatures. It was also discovered that PTFE has a very low friction coefficient. It was then subsequently primarily applied in defence, aviation and the nuclear industry and was introduced as Teflon (by DuPont) in 1946. PTFE can be produced in several colours (i.g. blue, yellow, red and black) and has a high corrosion resistance. It can be used at temperatures up to 260° C and to achieve a good end result, (the correct) pre-treatment is essential. With the exception of stainless steel, the material first has to be treated with a primer (anti-corrosion), followed by the PTFE layer. The materials for applying PTFE are heated in ovens where the top layers fuse together. This method meets the requirements set by, among others, the offshore and (petro)chemical industry. Despite the layer thickness that is applied onto them, the materials are easy to assemble. To achieve a proper fit this oversized nuts are often used in this process. The treated materials retain this hard and corrosion proof coating even after repeated (dis)assembly. The corrosion resistance was also determined by the neutral salt spray test. Further tests show a low friction coefficient. Xylan 1070 by Whitford is a PTFE coating, also called fluoropolymer coating, based on an organic solvent and was initially developed at the beginning of the 1970s for coating fastening materials. The materials treated by us usually consist of 2 coatings; they are "treated" twice. When used in combination with the right pre-treatment, for example Whitford primer 4090, it provides excellent corrosion protection, neutral salt spray test up to 3000 hours. The friction coefficient is also very low, lower than electrolytic zinc plating. The layer thickness of this coating is usually approximately 25 mu (20 to 60 mu) and the processed materials can be used at temperatures from -195° C to +260° C. Contact us for more information about PTFE. Home » PTFE coating XYLAN 1070 & 1424 MADE IN EUROPE PROTECT YOUR DELT'S against corrosion and adhesive environments to extend durability and save on maintenance costs with Xylan 1070 or Xylan 1424. We offer different SOLUTIONS against ANTI-CORROSION, ANTI-PEEL and ANTI-RUST. SOLUTION: Protect your bolts with PTFE. Polytetrafluorobethylene or PTFE is an extra Teflon protection layer with an average thickness of 15-20µ which comes in several colors such as Dark Blue, Green, Yellow and Red. We use Xylan 1070 or Xylan 1424 from Whitford to get your fasteners coated with a PTFE top coat. STEP ONE: Applying a base-coat such as Phosphate, Zinc, Zinc-Nickel, Hot Dip Galvanized or Xylar 1. The base coat has an average thickness of 10-15µ (except for HDG). See the table below to determine which base coat is best suited to your situation. Base coat Corrosion resistance base coat Phosphate Within 24 hours. Electro-Zinc Within 200-300 hours. Hot Dip Galvanized Within 600-700 hours Zinc-Nickel Within: 900-1000 hours Xylar 1 Within: 1200-1300 hours STEP TWO: Glass-shot blasting to roughen the surface of the fasteners to be coated. STEP THREE: Having fasteners coated with PTFE Xylan 1070 or Xylan 1424 in the required color. See the table below for the top coat most suited to for your situation. Top coat Comments: ASTM B-117 Salt Spray test Working Temperature Xylan 1424. Fluoropolymer Organic. Water-based. Average thickness topcoat: 16µ. \*In combination with Zinc-Nickel: up to 3300 hours -20°C to 180°C Xylan 1070 Fluoropolymer Organic. Solvent-based. Average thickness topcoat: 16µ. \*In combination with Zinc-Nickel: up to 3900 hours -195°C to 260°C STEP FOUR: Heat treatment of the coated fasteners is performed. What are the benefits of PTFE Xylan coated fasteners? Anti-Rust. In a ASTM B-117 Salt Spray test the coating remains resistant up to 3900 hours before red rust occurs. Sustainability. As we are working towards a circular economy, PTFE coated fasteners are more sustainable then regular bolts due to their longer durability. Lower maintenance costs. Longer durability of bolts does not only result in more sustainability but also lower maintenance costs. Low torque friction coefficient. Due to the TEFLON top layer, torque friction is low, added value. Using colored bolts into the colored frame work, valve, flange or heat exchanger gives your product extra added value. Xylan® Coatings are a family of fluoropolymer coatings designed for use on various types of OEM components and fasteners to prevent corrosion and increase the life of the product. Most Xylan® coatings contain PTFE or other types of lubricants and are applied in thin films. Scroll down to see the Xylan® coatings we offer and their individual uses. Industrial Xylan® Coatings solve the problems created when the ideal material for use in engineering construction has the wrong surface properties. Parts made from materials with the optimum strength, weight and cost may still corrode, seize or gall. Xylan® coatings provide a working surface, tailored to the application. Additionally, using industrial Xylan® coatings allows for reduced breakout torques due to its anti-corrosion and low-friction properties. Xylan® coatings reduce friction, improve wear resistance, protect metal from corrosion, and for non-stick applications which make them ideal for a variety of applications. Micro Surface Corporation, located in the midwest an hour outside of Chicago, IL has been a Xylan coating service provider for customers throughout the USA for more than 25 years. Whitford's Xylan® is the largest, most complete line of fluoropolymer coatings in the world. Xylan® coatings differ from traditional fluoropolymer coatings in one very important aspect: they are composite materials. Lubricants with the lowest known coefficient of friction are combined with high temperature resistant organic polymers, together they form "plastic alloys" with unique properties. Coefficient of friction as low as 0.02. Superb wear resistance even under extreme pressure. Outstanding corrosion and chemical resistance against: Water and Salt Water Acids Bases Solvents Other fluids. Wide operating-temperature range from -195°C to +285°C (-385°F to +545°F). Flexible curing schedule from ambient to 425°C (800°F). Wide range of colors available in many formulations. Pliability: Xylan® coatings bend freely and repeatedly without breaking. Machineability: After applying multiple coats of Xylan®, some formulations can be machined to fit. Excellent adhesion to most metals, plastics, ceramics, wood, and even to itself. Cleaning: Parts are cleaned to remove all oil, grease & other substances. Cast parts are de-gassed. Pretreatment: Parts are pretreated to ensure proper adhesion. Material Preparation: Xylan® is rolled at 30 rpm for 30 minutes to ensure the coating has been adequately mixed. Application: The coating is sprayed onto the item either manually or on one our automated production lines. Cure / Bake: Depending on the coating used the part is cured in an oven at a temperature from 320°F to 815°F. Inspection: Parts are inspected to ensure proper application. Bolts coated with Xylan® to prevent corrosion and reduce friction. Product Code Product Description Cure Temperature Operating Temperature Thickness Substrates Gloss Food Contact Xylan 1006 Xylan 1006 is a resin bonded dry lubricant coating that contains the greatest percentage of PTFE than virtually any other Xylan coating and as a result has excellent non-stick properties and good chemical resistance. However, because of its high PTFE content, it is somewhat softer than other coatings and as a result is best suited for industrial/mechanical applications which do not require a great deal of wear and abrasion resistance. Application examples include molding, components which tend to gall, and items that must function after a period of non-use. 450°F 500°F continuous, 575°F intermittent 0.6 - 1.0 mil (15 - 25 Microns) Most metals, some ceramics and plastics Low No Xylan 1010 Xylan 1010 is a dry film lubricant that used on a number of surfaces to reduce friction even at high loads, prevent wear and galling, and provide additional lubrication in the event of the failure of the primary lubricant. In addition to its low coefficient of friction (0.05), it also has very good non-stick release properties, excellent chemical resistance, and the ability to operate at high temperatures. This coating may be cured at a minimum of 450°F, 525°F for better chemical resistance, or 650°F for improved release. Common colors are Black (P01926E) and Medium Green (E0795A). 450° - 650°F 500°F 0.6 - 1.0 mil (15 - 25 Microns) Most metals, some ceramics and plastics Low to Medium No Xylan 1014 Xylan 1014 contains significantly more bonding resin which produces finishes that are harder, more abrasion resistant, glossier, and less porous. As a result it is an excellent coating for hardware and fasteners as well as machinery exposed to ice and snow which need to be protected from chemicals and corrosive agents, weathering, and abrasives. Common colors are Medium Blue (P01931E), Black (P01937E), Green (E0757A), and Yellow (E2717A). 450°F 500°F continuous, 600°F intermittent 0.6 - 1.0 mil (15 - 25 Microns) Most metals, some ceramics and plastics Low to Medium No Xylan 1052 Xylan 1052 is formulated for high pressure, low speed, industrial/mechanical wear applications. Its dual lubrant system of PTFE and Molybdenum Disulfide (MoS2) provides lubrication for bearing surfaces up to 150,000 psi. Common colors are Olive Green (E0764A), Green (E0793A), Black (E6850E), and Blue (E9414E). 450°F 500°F 0.6 - 1.0 mil (15 - 25 Microns) Most metals, some ceramics and plastics Low to Medium No Xylan 1070 Xylan 1070 is a low friction coating used to protect hardware, fasteners, and flanges which operate in salt water and salt spray environments. It contains additives which provide exceptional corrosion protection, compared to Xylan 1010 it offers 40% additional salt spray protection. Common colors are Black (E10211A), Dark Blue (E10212A), Yellow (E2717B), and Green (P01614E). 450°F 500°F continuous, 600°F intermittent 0.6 - 1.0 mil (15 - 25 Microns) Most metals, some ceramics and plastics Low to Medium No Xylan 1220 Xylan 1220 contains FEP instead of PTFE which provides excellent non-stick and release properties when used as a coating for molds. It is available in black and green colors. 400°F 400°F 0.5 - 0.7 mil (12 - 18 Microns) Aluminum, Steel or Stainless Steel Low to Medium No Xylan 1237 Xylan 1237 offers a low cure temperature (as low as 175°F) which makes it an excellent dry film lubricant for rubber O rings and plastics. It comes in a number of colors such as black, blue, red, white, and orange. 175°F 300°F 0.1 - 0.7 mil (2.5 - 15 Microns) Most Rubbers and Plastics Medium No Xylan 1270 Xylan 1270 is a cheaper alternative to Xylan 1070 but has less lubrication and is also the European version of Xylan 1400. 450°F 500°F continuous, 600°F intermittent 0.6 - 1.0 mil (15 - 25 Microns) Most metals, some ceramics and plastics Low to Medium No Xylan 1305 and 1315 Xylan 1305 and 1315 is an excellent two coat system that protects valves and chemical process industry hardware from chemical attack. It is unaffected by solvents to 400°F and resists most acids and alkalies. Additionally it is thermally stable to 425°F continuous / 500°F intermittent service which makes it well suited for chemical processing operations. It is only available in dark colors. 750°F 425°F 0.6 - 1.0 mil (15 - 25 Microns) Aluminum, Steel or Stainless Steel Low to Medium No Xylan 1331 Contains PPS (polyphenylene sulfide resin) and PTFE for outstanding wear and abrasion resistance. Good for when a highly lubricious nonstick surface is desired. 750°F 450°F 0.8 - 1.0 mil (20 - 25 Microns) Aluminum, Steel or Stainless Steel Low to Medium No Xylan 1390 Xylan 1390 utilizes graphite as a lubricant instead of PTFE and was developed for use on parts the run in wet wear conditions. Since it does not contain PTFE it can be used as a lubricant in industries where its use is prohibited. 750°F 400°F 0.9 - 1.1 mil (22.5 - 27.5 Microns) Aluminum, Steel or Stainless Steel Low to Medium No Xylan 1400 Xylan 1400 protects chemical processing industry equipment and hardware from chemical attack and mechanical damage by forming a continuous, impermeable dry film to act as a barrier between the base metal and hostile environment. Common colors are Black (E11521A). 400°F 375°F 0.7 - 0.9 mil (17.5 - 22.5 Microns) Aluminum, Steel or Stainless Steel Low to Medium No Xylan 1401 Xylan 1401 is similar to 1400 but includes electrically conductive additives which makes a good solution for dissipating static electricity. 400°F 375°F 0.7 - 0.9 mil (17.5 - 22.5 Microns) Aluminum, Steel or Stainless Steel Low to Medium No Xylan 1424 Xylan 1424 is a fastener coating used to prevent corrosion and improve make up torque. When applied over zinc phosphate it can withstand 1,500 hours of salt fog. This can be extended even longer if it is applied over a primer such as Xylar 1. Xylan 1424 will withstand most solvents, waters, automotive fluids and fuels up to 200°F and is impervious to new water base hydraulic fluids used in offshore oil production. This coating can be used continuously from -58°F to +350°F. Common colors are Brown (D11810), Yellow (D7813), Orange (D7812), Red (D6580), Green (D6583), Blue (D6584), and Black (D6586). 400°F 350°F continuous, 400°F intermittent 0.6 - 1.0 mil (15 - 25 Microns) Most metals, some ceramics and plastics Low to Medium No Xylan 1440 Xylan 1440 is good for low-friction, wear protection, and are also resistant to many chemicals found in industrial manufacturing such as automotive fluids, organic solvents, acids, and caustics. Xylan 1440 is similar to 1240 but is available in a wider selection of colors. 400°F 400°F 0.7 - 0.9 mil (17.5 - 22.5 Microns) Aluminum, Steel or Stainless Steel Low to Medium No Xylan 1514 Xylan 1514 provides a durable non-stick finish to products such as personal care items, industrial equipment, and housewares to give an attractive and easy to clean finish. 525°F 475°F continuous, 525°F intermittent 0.7 - 0.9 mil (17.5 - 22.5 Microns) Aluminum, Steel or Stainless Steel Low to Medium No Xylan 1515 Xylan 1515 is similar to 1514 but has less PTFE which makes it harder and glossier. 400°F 400°F 0.7 - 0.9 mil (17.5 - 22.5 Microns) Aluminum, Steel or Stainless Steel Low to Medium No Xylan 1620 Xylan 1620 provides a durable, low-friction wear surface capable of operating at temperatures from -420°F to +500°F and in chemical and corrosive environments. It is an excellent coating for the automotive industry, specifically internal components of engines, pumps, and compressors. It contains additives that increase lubrication and load bearing capability to provide improved efficiency and wear life. 450°F 500°F 0.7 - 0.9 mil (17.5 - 22.5 Microns) Aluminum, Steel or Stainless Steel Low to Medium No Xylan 1700 Xylan 1700 provides a smooth finish with excellent chemical resistance, non-stick and release which makes it ideal demanding environments such as vessel linings. 750°F 480°F continuous, 550°F intermittent 0.6 - 1.0 mil (15 - 25 Microns) Aluminum, Steel or Stainless Steel Low to Medium No Xylan 1756 Xylan 1756 is a pure FEP topcoat which can applied over a variety of other Xylan coatings such as 1220, 1840, and 8840 to provide greater release. Excellent for molds, sealing bars, and processing equipment. 700°F 400°F continuous, 450°F intermittent 0.5 - 0.7 mil (12 - 18 Microns) Aluminum, Steel or Stainless Steel Low to Medium No Xylan 1820 Xylan 1820 provides a smooth finish with good chemical resistance and excellent non-stick and release properties for metal parts that need to be formed after the application of the surface (Postforming). 750°F 400°F 0.6 - 0.8 mil (15 - 20 Microns) Aluminum, Steel or Stainless Steel Low to Medium No Xylan 1840 Xylan 1840 is one of the best non-stick and release coatings in the Xylan family which makes it an excellent solution for coating sealing bars and molds. Sealing bars benefit from its ability to repel melted plastic at elevated temperatures which can be sticky and troublesome. Molds benefit from its long lasting release properties. 750°F 400°F continuous, 475°F intermittent 0.8 - 1.2 mil (20 - 30 Microns) Cast/Rolled Aluminum, Aluminumized Steel, Steel, Stainless Steel Low to Medium No Xylan 5230 Xylan 5230 is a fastener and small component coating that excels at providing corrosion protection and uniform driving torque for the automotive industry and complies to Chrysler PS-7001, Ford WSD M21 P10 B2 (S303) and WSD M21 P10 B3 (S306). General Motors 6046M, and SAE/USCAR 1 (336+ hours). 425°F 350°F continuous, 400°F intermittent 0.4 - 0.6 mil (10 - 15 Microns) Aluminum, Titanium, Zinc Phosphate, Steel or Stainless Steel Low No Xylan 8110 Xylan 8110 is similar to 1010 but is FDA compliant and is commonly available in Black (E9314D). 750°F 400°F continuous, 475°F intermittent 0.6 - 0.8 mil (15 - 20 Microns) Aluminum, Steel or Stainless Steel Low to Medium Yes Xylan 8840 Xylan 8840 is similar to 1840 but is FDA compliant. 750°F 400°F continuous, 475°F intermittent 0.8 - 1.2 mil (20 - 30 Microns) Cast/Rolled Aluminum, Aluminumized Steel, Steel, Stainless Steel Low to Medium Yes Minimum Charge for coating services is 300.00 USD.

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