

DYLON DATA



GRADE

AE

308

DYLON GRADE AE HIGH TEMPERATURE DRY LUBRICANT AND RELEASE AGENT A HIGHLY UNIQUE LIQUID GRAPHITE

DESCRIPTION:

Dylon Grade AE is a graphite compound originally developed for aerospace applications. It is a suspension of finely divided graphite crystals with special stabilizing and protective additives, in a water-soluble base. As shipped, it is a liquid with the consistency of a latex house paint.

It may be brushed, sprayed rolled or dipped onto any surface without running or sagging. The vehicle dries by evaporation, leaving a smooth, high-density close-knit layer of graphite with a low coefficient of friction. It has high electrical and thermal conductivity. It may be added to, and mixed with, a large variety of resins, solvents, pigments, etc.

The graphite coating contains no metallic additives or impurities. It is greaseless, oilless, and will not stain or hold dirt. The dried coating will not crack nor melt and run at any temperature, is tasteless, odorless and non-corrosive. It may be buffed to a "mirror" finish. When no longer needed, it may be removed with cold water.

Dylon Grade AE has good resistance to animal and vegetable oils, greases, and petroleum hydrocarbons. The dried coating will not support the growth of microorganisms, and does not require a preservative.

CHARACTERISTICS:

Graphite:	22%	Flashpoint:	None
Binder:	Evaporates at 250°C	Shelf life:	1 Year, sealed
Density:	10 lbs./gal.	pH:	Neutral
Color:	Dark Gray	Freezing Point:	30°F (-1°C)
Vehicle:	Water	Coverage:	250 ft ² /gal./mil

LOW TEMPERATURE USES:

Dylon AE forms a superior low temperature release agent for two reasons. First is that it does not change physical properties even at extremely low temperatures. This means that once applied and dried, **Grade AE** cannot freeze, crack or distort from temperature variations. Secondly, **Grade AE** will stay in place until the binder is again dissolved in water, or abraded away. If the formed part should contain traces of the coating it may be easily cleaned with plain water. Below -20°F the coating is superior to most oils and greases as a lubricant.

Use for cold molding or extruding, concrete block forms, tile and pipe manufacture, cryogenic lubricant, casting of ceramics.



ISO 9001:2000 CERTIFIED

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INDUSTRIAL USES:

For temporary lubrication of large areas such as floors, tables, ramps, bins, etc., as a stop-off and anti-weld coating, distribute heat over greater surfaces, as a die coating and a mold and ingot wash. **Dylon AE** prevents galling of parts that must be fitted into small clearances, and is a good lubricant for sliding or rotating parts in cold boxes or in high temperature ovens and furnaces. Excellent for glassmaking, rubber molds, ceramic hot pressing, and concrete construction. Highly effective dry-film lubricant to protect gears exposed to extremely dirty environments.

HIGH TEMPERATURE USES:

Dylon AE is stable to about 350°F. At that temperature the temporary binder evaporates, leaving absolutely no residue but the pure graphite crystals. Since there is no sticky or gummy residue, the coating will not react with most oxides below 2500°F. It will not be wet by, nor contaminate most non-ferrous metals.

Grade AE will not melt at any temperature and retains its smooth slippery lubricating properties to about 5000°F in non-oxidizing atmospheres. Drastically reduces mold friction, prevents sticking of hot metal to rams and dies, dramatically lessens diffusing vapor penetration into porous substances.

Use as a release agent and lubricant in casting molds, extrusion billets, dies, core boxes, and hot pressing. As a stop-off and anti-weld coating, parting media between layers, anti-splash coating, etc. Excellent graphite mold wash. Since it contains 22% graphite it may be diluted 10 to 1 for many foundry applications. Used extensively in steel mills to lubricate exposed metal-to-metal contact areas.

ELECTRICAL USES:

Use to prevent sticking of brushes on field generators, stop galvanic action between dissimilar metals, coating for battery and other electrical joints. As little as 10% **Grade AE** dispersed in some additives will make them electrically conductive.

APPLICATION:

Stir contents thoroughly before use, as some settling will occur after standing. **Dylon Grade AE** may be sprayed, brushed, or swabbed onto any wettable surface where the temperature is less than 250°F. The lubricated area can then be rapidly brought to any higher working temperature.

If **Dylon AE** is too thick, adding plain tap water in any quantity can thin it. For the initial application, surfaces should be clean and free of grease or oils, dirt, scale and residue.

NOTE:

If the surface to be coated is greater than 250°F, apply **Dylon Grade AA**. **Grade AA** is a water-based graphite coating that can be applied to surfaces up to 1000°F at time of application. **Grade AE** will not adhere well to surfaces that are above 300°F at time of application.

PACKAGING:

5 Gallon pails

55 Gallon drums