### BOELUBE “A Better Way”

A Space Age Lubricant developed by The Boeing Company that fights friction at the interface of the cutting edge and the workpiece. The reduction of friction at these surfaces minimizes heat generation and concurrent chip weld. Tools retain their cutting edge longer, leading to closer tolerances and prime chip yield.

Manufactured from personal care ingredients, Boelube is non-toxic, non-irritating and biodegradable. Boelube is non-corrosive, non-flammable, chemically stable and free of halogens, heavy metals, sulfur, phosphorus, silicone, petroleum or paraffin wax. Boelube does not contain any ingredients considered a hazardous substance by OSHA, WHMIS, IARC, NTP, and State Regulatory Lists. Refer to Material Safety Data Sheets for additional information.

### Unique Chemistry

Boelube’s high film strength and lubricity and unique polar properties are the keys to its ability to provide superior metalworking lubrication.

### Advantages

Boelube Liquid, Paste and Solid will not support bacterial or fungal growth. Superior thermal and oxidation stability provides indefinite shelf life. Boelube will not promote dermatitis and presents a safe effective method for operators to machine various types of materials without special handling, fluid recycling or typical disposal problems.

Easily removed with aqueous cleaner, solvent, denatured alcohol or isopropanol. Approved for nuclear exposure. Does not have to be removed prior to heat treat. In most cases Boelube is compatible with paints and sealants. Boelube can be left on the workpiece for subsequent machining or as a corrosion inhibitor.

### Key Attributes

Boelube is a registered trademark of the Boeing Company. These products represent a family of proprietary lubricants developed through Boeing manufacturing operations and lubricant experience. The Orelube Corporation holds an exclusive worldwide license from The Boeing Company to manufacture and market the Boelube series of lubricants.
Boelube Pastes

Boelube Paste is available in three forms – Soft (Blue), Medium (Blue) and Hard (Pink).

Boelube Pastes are extremely cost effective in single point work such as Tapping, Drilling or Reaming.

A small amount of Boelube Paste applied to the tool is all that is required to obtain a high quality finish and increased tool life with little or no clean-up required. Brush it on or dip tool in paste.

Boelube Pastes are ideal for Forming and Bending as well as in Drop Hammer, Thread Cutting and Spin Forming applications. They provide closer tolerance parts and extended diaphragm and die life.

Boelube Liquids

For all Mist, Spray, Fine Droplet, One-Shot and Thru-the-Tool applications such as Drilling • Tapping • Reaming • Grinding • Milling • Routing • Punching • Forming • Deburring • Broaching • Gun Drilling.

Ideally applied at a rate of 3/4 of an ounce or less per hour of machining time leaving little or no clean up or related costs.

Applicators apply a precise amount of Boelube Liquid to the cutting edge of the tool to reduce heat generation. Boelube, in combination with air, keeps tools cool and removes chips.

Spray or One-Shot applications leave a minimal amount of Boelube Liquid that can be left on the workpiece for subsequent machining or as a corrosion inhibitor.

Boelube Water-Soluble Fluid

Boelube Water-Soluble fluid provides effective cooling and cleanliness enabling open, free grinding.

Parts and machinery are protected from rust and corrosion. Machine tool operators will appreciate its mild alkalinity.

Boelube Water-Soluble fluid has low foaming characteristics, and will not leave a tacky residue on machinery or machined parts.

Recommended Dilutions:

- General Machining: 15:1 - 20:1
- Reaming, Tapping: 10:1 - 20:1
- Broaching: 10:1 - 15:1
- Grinding: 15:1 - 25:1

Boelube Solids

Come in a variety of shapes and sizes to accommodate ease of application.

Boelube Solids produce a high quality finish in many applications such as Drilling • Tapping • Reaming • Abrasive Belts • Files • Deburring Tools • Grinding Wheels • Awls • Chisels • Band, Circular and Hand Saw Blades.

Improve tool life by reducing heat build-up in belt, disc and wheel grinding operations. Apply the push-up tube to the tool before start-up.

Individual Boelube Blocks are ideal for grinding operations as well. Apply to belts or discs prior to start-up.

Boelube Water-Soluble Fluid

Is a non-toxic synthetic micro-emulsion lubricant that when diluted with water, will form a clear white emulsion that is effective for machining many types of materials, leading to better finish and longer tool life.