

ADDVANCE™

Botanical Metalworking Lubricants



Botanical Lubricant

Chemistry that blends natural resources with earth friendly alternatives for a wide range of Metalworking Applications.

renewable alternat



Metalloid's **ADVANCE** line of products includes both industrial and metalworking products. These products utilize such renewable ingredients as sunflower, corn, soybean, canola and coconut. Our goal is to eliminate dependence on petroleum oils and move into earth renewable products.

ADVANCE 6050 Botanical Forming Fluid

Description

ADVANCE 6050 is a botanical metal forming lubricant designed to replace high-chlorine straight and soluble products. ADVANCE 6050 stamps, draws and end forms the most difficult forming jobs and can be diluted for light to medium duty metal forming operations. ADVANCE 6050 provides superior tool and die life, with exceptional corrosion protection for forming dies and finished parts. ADVANCE 6050 can be easily removed in alkaline or warm water wash systems.

Benefits

- Replaces high-chlorine products
- Excellent versatility, deep draws and stamps
- Eliminates multiple products from press rooms
- Formulated to provide excellent finish on parts
- Forms stable emulsion
- Outstanding corrosion protection
- Easily removed in alkaline wash systems
- Exceptional tool and die life

ADVANCE 6090 Botanical Forming Fluid

Description

ADVANCE 6090 is a botanical metal forming lubricant designed to replace high-chlorine straight and soluble products. ADVANCE 6090 will deep draw and stamp heavy gauge parts. ADVANCE 6090 is an excellent choice when corrosion protection is essential for nested parts. ADVANCE 6090 can be diluted with water for light to medium duty operations and is easily removed in alkaline or warm water wash systems.

Benefits

- Exceptional corrosion protection
- Excellent versatility, deep draws and stamps
- Eliminates multiple products from press rooms
- Formulated to provide excellent finish on parts
- Forms stable emulsion
- Replaces high chlorine products
- Easily removed with water
- Exceptional tool and die life

ADVANCE 6100 Botanical Forming Fluid

Description

ADVANCE 6100 is a heavy-duty botanical metal forming lubricant designed to replace high-chlorine straight and soluble products. ADVANCE 6100 is formulated with an anti-wipe package that provides hydrodynamic lubrication designed to reduce heat and prevent wear in moving parts. ADVANCE 6100 can be diluted with water for light to medium duty operations and is easily removed in alkaline or warm water wash systems.

Benefits

- Exceptional corrosion protection
- Versatile, deep draws and stamps
- Eliminates multiple products from press rooms
- Formulated to provide excellent finish on parts
- Forms stable emulsion
- Replaces high chlorine products
- Easily removed with water
- Exceptional tool and die life

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ADVANCE 6110 **Botanical Forming Fluid**

Description

ADVANCE 6110 is an oil free, biodegradable metalforming lubricant composed of renewable resources. The unique 'botanical green' chemistry affords the ultimate in lubricity, personal safety and environmental compatibility. This state-of-the art formulation provides manufacturing and operator benefits that are unattainable with traditional oil based lubricants. ADVANCE 6110 is the optimum choice for heavy-duty metal stamping, blanking and deep drawing operations on all metals.

Benefits

- Outstanding corrosion protection
- Weldable, heat treatable, ashless
- Cleans off easily
- Excellent die life and anti-wear properties
- Multi-metal compatible
- Eliminates smoke and oil residues
- Cleaner/safer press room environment
- Non-Staining safe on yellow metals
- Contains no hazardous materials
- Biodegradable, operator friendly
- Reduces post finishing costs
- Cost-effective - low end use costs

Applications

- Progressive and Compound die stamping
- Extruding
- Blanking
- End-forming
- Deep drawing
- Punching/Piercing
- Bending
- Notching
- Contour and Roll forming
- Spinning

ADVANCE 6120 **Botanical Forming Fluid**

Description

ADVANCE 6120 is an ultra heavy-duty biodegradable metalforming lubricant for the most severe of operations. ADVANCE 6120 was specifically engineered to replace oil based lubricants in the toughest draws on the hardest metals. ADVANCE 6120 is a unique, no oil, renewable resource formulation that will provide the operator with benefits that are unattainable with traditional oil based lubricants. This state-of-the art chemistry affords the ultimate in lubricity, personal safety and environmental compatibility. ADVANCE 6120 provides the benefits of a chlorinated lubricant without the use of chlorinated paraffins. ADVANCE 6120 is the ideal choice for heavy-duty stamping, blanking and deep drawing operations on all metals including the hardest alloys.

Benefits

- Outstanding corrosion protection
- Anti-wear EP package reduces part breakage, galling, tearing and wrinkling
- Cleans off easily
- Excellent die life and anti-wear properties
- Multi-metal compatible
- Eliminates smoke and oil residues
- Cleaner/safer press room environment
- Non-Staining safe on yellow metals
- Contains no hazardous materials
- Biodegradable, operator friendly
- Reduces post finishing costs
- Cost-effective - low end use costs

Applications

- Progressive and Compound die stamping
- Heavy gauge stamping
- Single hit deep drawing
- Stainless steel deep drawing
- Extruding
- End-forming
- Punching/Piercing
- Notching



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