

DIE CASTING LUBRICANTS

DIE SLICK® 1708 A LUBRICANT APPLICATION SHEET

BENEFITS

- » Reduces solder
- » Produces bright clean castings
- » Enhances release and wetting characteristics

APPLICATIONS

DIE SLICK® 1708 A is formulated as a concentrate designed for excellent release and bright cosmetic casting finish. DIE SLICK® 1708 A is a semi-synthetic petroleum formulation blended specifically to meet customer's production environment and incorporating state of the art Smart Polymer™ technology. DIE SLICK® 1708 A with Smart Polymer technology is a thermodynamically reactive (heat activated) polymer blend which forms a tough barrier on hot areas of the die while lightly coating cooler less demanding areas. This unique property translates to reduced solder, enhanced release and wetting characteristics while producing bright clean castings.

ALLOY	DILUTION RATIO*	DIE TEMPERATURE RANGE
ALUMINUM	80-200 : 1	325-750 °F
ZINC	80-200 : 1	325-750 °F
MAGNESIUM	120-240 : 1	325-750 °F

* The dilution ratios are recommendations based on G.W. Smith & Sons experience in the field. Each Die Casting facility is unique and each operator should evaluate the recommended starting ratio based on his / her experience.

PACKAGING AND STORAGE

Please see SDS for more detailed information.

PROPERTIES

PROPERTIES	TYPICAL VALUES
Appearance	White Emulsion
Odor	Mild
Flash Point	N/A
Density (lbs/gal)	8.0 - 8.2 lbs/gal
pH	8.4- 9.4

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DIE CASTING LUBRICANTS

DIE SLICK® 1722 A LUBRICANT APPLICATION SHEET

BENEFITS

- » Excellent release
- » Enhanced wetting properties
- » Bright, clean castings
- » Does not cause paint or coating issues

APPLICATIONS

DIE SLICK® 1722 A is a premium release agent for high pressure die casting operations, designed for excellent release and bright cosmetic finish. DIE SLICK® 1722 A is a semi-synthetic formulation, incorporating the high quality petroleum base stocks, blended specifically to meet the demands of the customer's production environment. DIE SLICK® 1722 A incorporates the state of the art Smart Polymer™ technology, a thermodynamically reactive (heat activated) polymer blend, which forms a tough barrier on hot areas of the die, while lightly coating cooler, less demanding areas. This unique property translates to reduced solder, and enhanced release and wetting characteristics, while producing bright, clean castings.

PROPERTIES

PROPERTIES	TYPICAL VALUES
Appearance	White liquid
Odor	Mild
Viscosity (cP)	1 - 20
pH	9.0 - 10.0
Solubility	Dispersible
Boiling Point (°C/°F)	100 / 212
Flash Point (°C/°F)	N/A
Specific Gravity (g/cc)	0.977
Bulk Density (lb/gal)	8.15



DIE SLICK® 1722 A

LUBRICANT

APPLICATION SHEET

This product can be used with the following operations:

ALLOY	DILUTION RATIO*	COMMENTS
ALUMINUM	80:1	Ratios as high as 120:1 are common.
MAGNESIUM	80:1	Ratios as high as 120:1 are common.
ZINC	100:1	Ratios as high as 140:1 are common.

* The dilution ratios are recommendations based on G.W. Smith & Sons experience in the field. Each Die Casting facility is unique and each operator should evaluate the recommended starting ratio based on his / her experience.

PACKAGING AND STORAGE

DIE SLICK® 1722 A is available in drums, totes, or pails. All containers are filled to volume by weight. This product has a shelf life of 12 months. Like most chemicals, it should be stored in a tightly sealed container in temperatures between 5°C (41°F) and 35°C (95°F). Do not freeze. To enhance process compatibility, use Quaker metalworking fluids and cleaners. Consult your Quaker representative.

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DIE SLICK® 1708 A LUBRICANT APPLICATION SHEET

BENEFITS

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ALLOY	DILUTION RATIO*	DIE TEMPERATURE RANGE
ALUMINUM	80-200 : 1	325-750 °F
ZINC	80-200 : 1	325-750 °F
MAGNESIUM	120-240 : 1	325-750 °F

* The dilution ratios are recommendations based on G.W. Smith & Sons experience in the field. Each Die Casting facility is unique and each operator should evaluate the recommended starting ratio based on his / her experience.

PACKAGING AND STORAGE

Please see SDS for more detailed information.

PROPERTIES

PROPERTIES	TYPICAL VALUES
Appearance	White Emulsion
Odor	Mild
Flash Point	N/A
Density (lbs/gal)	8.0 - 8.2 lbs/gal
pH	8.4- 9.4

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DIE CASTING LUBRICANTS

DIE SLICK® 1722 A LUBRICANT APPLICATION SHEET

BENEFITS

- » Excellent release
- » Enhanced wetting properties
- » Bright, clean castings
- » Does not cause paint or coating issues

APPLICATIONS

DIE SLICK® 1722 A is a premium release agent for high pressure die casting operations, designed for excellent release and bright cosmetic finish. DIE SLICK® 1722 A is a semi-synthetic formulation, incorporating the high quality petroleum base stocks, blended specifically to meet the demands of the customer's production environment. DIE SLICK® 1722 A incorporates the state of the art Smart Polymer™ technology, a thermodynamically reactive (heat activated) polymer blend, which forms a tough barrier on hot areas of the die, while lightly coating cooler, less demanding areas. This unique property translates to reduced solder, and enhanced release and wetting characteristics, while producing bright, clean castings.

PROPERTIES

PROPERTIES	TYPICAL VALUES
Appearance	White liquid
Odor	Mild
Viscosity (cP)	1 - 20
pH	9.0 - 10.0
Solubility	Dispersible
Boiling Point (°C/°F)	100 / 212
Flash Point (°C/°F)	N/A
Specific Gravity (g/cc)	0.977
Bulk Density (lb/gal)	8.15



DIE SLICK® 1722 A

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APPLICATION SHEET

This product can be used with the following operations:

ALLOY	DILUTION RATIO*	COMMENTS
ALUMINUM	80:1	Ratios as high as 120:1 are common.
MAGNESIUM	80:1	Ratios as high as 120:1 are common.
ZINC	100:1	Ratios as high as 140:1 are common.

* The dilution ratios are recommendations based on G.W. Smith & Sons experience in the field. Each Die Casting facility is unique and each operator should evaluate the recommended starting ratio based on his / her experience.

PACKAGING AND STORAGE

DIE SLICK® 1722 A is available in drums, totes, or pails. All containers are filled to volume by weight. This product has a shelf life of 12 months. Like most chemicals, it should be stored in a tightly sealed container in temperatures between 5°C (41°F) and 35°C (95°F). Do not freeze. To enhance process compatibility, use Quaker metalworking fluids and cleaners. Consult your Quaker representative.

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DIE CASTING LUBRICANTS

DIE SLICK® 1728 A LUBRICANT APPLICATION SHEET

BENEFITS

- » Excellent release
- » Enhanced wetting properties
- » Bright, clean castings
- » Does not cause paint or coating issues

APPLICATIONS

DIE SLICK® 1728 A is a premium release agent for high pressure die casting operations, designed for excellent release and bright cosmetic finish. DIE SLICK® 1728 A is a semi-synthetic formulation, incorporating the high quality petroleum base stocks, blended specifically to meet the demands of the customer's production environment. DIE SLICK® 1728 A incorporates the state of the art Smart Polymer™ technology, a thermodynamically reactive (heat activated) polymer blend, which forms a tough barrier on hot areas of the die, while lightly coating cooler, less demanding areas. This unique property translates to reduced solder, and enhanced release and wetting characteristics, while producing bright, clean castings.

PROPERTIES

PROPERTIES	TYPICAL VALUES
Appearance	White liquid
Odor	Mild
Viscosity (cP)	20 - 30
pH	9.0 - 10.0
Solubility	Dispersible
Boiling Point (°C/°F)	100 / 212
Flash Point (°C/°F)	N/A
Specific Gravity (g/cc)	0.984
Bulk Density (lb/gal)	7.46



DIE SLICK® 1728 A

LUBRICANT

APPLICATION SHEET

This product can be used with the following operations:

ALLOY	DILUTION RATIO*	COMMENTS
ALUMINUM	80:1	Ratios as high as 120:1 are common.
MAGNESIUM	80:1	Ratios as high as 120:1 are common.
ZINC	100:1	Ratios as high as 140:1 are common.

* The dilution ratios are recommendations based on G.W. Smith & Sons experience in the field. Each Die Casting facility is unique and each operator should evaluate the recommended starting ratio based on his / her experience.

PACKAGING AND STORAGE

DIE SLICK® 1728 A is available in drums, totes, or pails. All containers are filled to volume by weight. This product has a shelf life of 12 months. Like most chemicals, it should be stored in a tightly sealed container in temperatures between 5°C (41°F) and 35°C (95°F). Do not freeze. To enhance process compatibility, use Quaker metalworking fluids and cleaners. Consult your Quaker representative.

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