Most Popular Sheetfed Products

Premium Sheetfed Vehicles

KB-210	Workhorse **Lithomaster Series**, with good work & turn characteristics
KB-215	The flagship of the **Lithomaster Series**. Light gel, high viscosity, low shortness ratio, great litho properties.
KB-298	Higher Structured Version of KB-215, medium gel **Lithomaster Series**

Midnight Black Ink Vehicle System

KB-117	Proprietary alkyd with unique pigment wetting properties for carbon black and other hard to wet pigments.
KB-250LT	Developed specifically for process black to improve litho properties, increase density and reduce gloss back.

Stay Open Vehicles

KB-946	Fast setting work and turn version of our stay open system. Excellent combination of set and stability.
KB-1014	Medium Gel with excellent combination of high quality sheetfed properties.

High Solids Fast Setting (*contains ester solvent) S.F. Vehicles

KB-1095	Prop 65 Free, High melt resin, Tung oil, and TOFA Ester combine to give your ink system fast set with high solids.
KB-987	High Solids, Ester containing, fast setting vehicle.
KB-1010	Fast set dispersing/LB vehicle. Wetting properties from a unique blend of vegetable oil & proprietary ester solvent.
KB-1915	Sheetfed laser forms vehicle.
KB-1929	High Solids, Phenol formaldehyde-free, high renewable content vehicle system with enhanced film hardness.

> 5% ester solvent not recommended for most non-porous or plastic stock.

High Solids for Plastic Vehicles

KB-238	100% solids freeflow version of our high tung content phenolic system
KB-257	100% solids tung/phenolic, hard drying, high viscosity gel varnish with excellent water fighting properties
KB-310	100% solids high tung content phenolic system for maximum film integrity
KB-1016	Unique setting/dry properties on all types of plastic substrates.

High Solids Gels for Paper

KB-1027	High solids, with a high renewable/soya content with medium gel properites.
KB-1074	Prop 65 free phenolic resin system that creates and ink that maintains dot sharpness, while running on high speed presses.
KB-1914	High solids, high viscosity gel vehicle that can be used for waterless printing or conventional high speed presses.

Greenmaster Vehicles

KB-1012	Excellent S.F. Gel developed using specific raw materials to render a smaller environmental footprint.
KB-1013	Excellent S.F. FF developed using specific raw materials to render a smaller environmental footprint.
KB-1041	Fast setting, Mineral Oil Free formulated with high melt point phenolic resins.

Flushing/Grinding Alkyds and Vehicles

KB-117	#5 body terephthalic alkyd; use to reduce gloss back and bronze in carbon black, alkali blue, rubine etc.
KB-406	100% solids, high viscosity, tung oil containing, exceptional film and adhesion for paper or plastic stock
KB-439	**Lithomaster Series** sheetfed flushing vehicle. The ultimate for finished ink properties.

Specialty Vehicles

KB-721	High solids Acrylic Gel; use for adhesion to plastic, duplicator inks, stay open, improve set speed
KB-732	Sheetfed waterless vehicle
KB-959	Universal Metallic Ink Vehicle with excellent pigment wetting and resistance to tarnishing
KB-955	100% solids, our highest film forming adhesion varnish for maximum film integrity
KB-1909	Sheetfed Metallic Ink vehicle formulated to disperse metallic pigment
KB-1934	100% solids, high viscosity, high tack gloss varnish

Sheetfed Extenders

KB-1039	High solids workhorse sheetfed extender
KB-1041	**Greenmaster** fast setting, Mineral Oil Free extender
KB-1069	**Greenmaster** mineral oil free sheetfed low tack extender
KB-1919	Sheetfed gloss varnish
KB-1080	Prop 65 Free, Drier free transparent white extender
KB-1083	Prop 65 Free/BPA free, Mineral Oil Free Low Tack Sheetfed Extender
KB-1084	Prop 65 Free/BPA free, Mineral Oil Free Sheetfed Extender

KUSTOM GROUP

Technical
Data Sheet

KB-210

Lithomaster Sheetfed Vehicle

Product Description

KB-210 is a new development in sheetfed vehicle technology that has been specially formulated to allow your inks to exhibit unique body and flow properties. This will result in vastly improved transfer and litho performance on today's high-speed presses.

To further enhance the performance of this system, we have developed several companion vehicles, including dispersion and flushing vehicles. Bases prepared from these vehicles will also aid in improving the performance of your inks.

This is a new and different approach in vehicle chemistry that deserves an in depth evaluation by quality-minded ink makers.

Performance Characteristics

- Very Low Dot Gain.
- Better Transfer and Color Stability during Long Press Runs.
- Excellent Water Balance and Litho Performance.
- Good Work and Turn Characteristics with High Gloss.

Physical Properties

Tack @ 400 rpm/1 minute	16.5 - 19.0
Viscosity in Poises	850 - 1050
Yield Value in dynes/cm^2	8,000 - 9500
%Solids	82 - 84%
% Renewable	65 - 75%

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Technical
Data Sheet

KB-215

Lithomaster S.F. Vehicle

Product Description

KB-215 is a unique development in sheetfed vehicle technology and is specially formulated to allow your inks to exhibit unique body and flow properties. This will result in vastly improved transfer and litho performance on today's high-speed presses. To further enhance the performance of this system, we have developed several companion vehicles, including dispersion and flushing vehicles. Bases prepared from these vehicles will also aid in improving the performance of your inks. This is a different approach in vehicle chemistry that deserves an in depth evaluation by quality-minded ink makers.

Performance Characteristics

- Very low dot gain.
- Better transfer and color stability during long press runs.
- Excellent water balance and litho performance.
- Good work and turn characteristics with high gloss.

Physical Properties

Tack @ 400 RPMs @ 1':	16.5 -19.0
Viscosity in Poises:	900-1,100
Yield Value in Dynes/cm2:	5,000-8,000
% Solids:	85 - 87
NAPIM Bio Renewable Content (BRC)	65 - 75%

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Technical Data Sheet

KB-298

Lithomaster Sheetfed Gel Vehicle

Product Description

KB-298 is a higher structured KB-215 and is part of our best selling vehicle line LITHOMASTER. **KB-298** is vehicle technology that has been specially formulated to allow your inks to exhibit unique body and flow properties. This will result in vastly improved transfer and litho performance on today's high-speed presses. This is a new and different approach in vehicle chemistry that deserves an in depth evaluation by quality-minded ink makers.

Performance Characteristics

- High viscosity with very low dot gain
- Better transfer and color stability during long press runs
- Excellent water balance and litho performance
- Good work and turn characteristics with high gloss

Physical Properties

Tack @ 400 rpm/':	14.0 – 16.5
Viscosity in Poise:	900 – 1100
Yield Value in Dynes/cm$^{2:}$	11,000 – 15,000
% Solids:	82 - 84

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Technical
Data Sheet

KB-117

Pigment Wetting Alkyd

Product Description

KB-117 is a 100% non-volatile Teraphthalic alkyd. **KB-117** is exceptional as a pigment wetter for reducing gloss back and bronze especially in carbon black and lithol rubine.

Performance Characteristics

- Excellent pigment wetting of carbon black and lithol rubine
- Positive oxidative dry properties
- Reduces bronze
- Imparts excellent gloss and flexibility to an ink film

Physical Properties

Drying Oil Type	Terephthalic Linseed
Viscosity 25°C	100-120 poise (Rheometer)
Acid Number	15 max.
% Solids	98-100

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Technical
Data Sheet

KB-250LT

Midnight Black Sheetfed Gel Vehicle

Product Description

KB-250LT is a new development in sheetfed vehicle technology that has been specially formulated to allow your inks to exhibit unique body and flow properties. This will result in vastly improved transfer and litho performance on today's high-speed presses. To further enhance the performance of this system, we have developed several companion vehicles, including dispersion and flushing vehicles. Bases prepared from these vehicles will also aid in improving the performance of your inks.
This is a new and different approach in vehicle chemistry that deserves an in depth evaluation by quality-minded ink makers.

Performance Characteristics

- Very low dot gain.
- Better transfer and color stability during long press runs.
- Excellent water balance and litho performance.
- Good work and turn characteristics with high gloss.

Physical Properties

Tack @ 400 RPMs @ 1':	10.0 -12.5
Viscosity in Poises:	275-375
Yield Value in Dynes/cm2:	4,000-7,000
% Solids:	84-86%

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Technical
Data Sheet

KB-946

Fast Setting Sheetfed Stay Open

Product Description

KB-946 is formulated to be fast setting, high gloss, and press stable at the highest press speeds. Inks made with this system exhibit superior body control, lithographic properties, and will show better gloss and rub properties when compared to other fast setting ink systems **KB-946** has been designed to use conventional quickset flushes, and will be compatible with most systems available today. Because of this excellent compatibility, you will **not** see bronzing, opaque colors, and short puffy inks that are produced by limited dilution systems on the market today.

Performance Characteristics

- Ultra fast set speed.
- Excellent work and turn characteristics.
- Above average stability in relation to solids.

Physical Properties

Tack @ 400 RPMs/1':	10-12
Viscosity in Poises:	450 – 750 (Rheometer)
% Solids:	70 - 72

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KB-1014

Sheetfed Stay Open Gel

Product Description

KB-1014 is formulated to give the unique combination of stay open properties in the can but dry fast in the thin film. **KB-1014** also has fast set speed.

Performance Characteristics

- Excellent stay open properties
- Excellent Water Balance and Litho Performance.
- Fast set speed.

Physical Properties

Tack @ 400 RPMs @ 1':	12.0 – 15.0
Viscosity in Poise:	900 - 1100
Yield Value in Dynes/cm^2:	11,000 - 14,000
% Solids:	77 - 79%
Renewable Content%:	60-70%

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Technical
Data Sheet

KB-1095

Prop 65 Free, Rapid Set High Solids Sheetfed Gel

Product Description

KB-1095 is formulated with the best raw materials available. High melt resin, tung oil, and TOFA Ester combine to give your ink system fast set with high solids. When used as the primary vehicle system **KB-1095** exhibits excellent all around ink properties. With this high end vehicle you truly get what you pay for.

Performance Characteristics

- Excellent film forming properties
- Excellent litho properties
- Good set speed
- High solids

Physical Properties

Tack @ 400 RPMs/1':	16.0 -18.0
Laray Viscosity in Poise:	1000 -1400
Laray Yield Value (Dynes/cm^2)	3,000 - 6,000
% Solids, Method 24A:	91- 93
% Renewable:	76 - 86

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Technical
Data Sheet

KB-987

Sheetfed Vehicle

Product Description

KB-987 is a free flow/grinding/flushing vehicle formulated with TOFA Ester to give your ink system fast set with high solids. **KB-987** can be used as your dispersing vehicle to enhance your down stream ink properties. Expect very low dot gain, with excellent water balance and litho performance.

Performance Characteristics

- High solids and fast setting
- High renewable content
- Press stable

Physical Properties

Tack @ 400 RPMs/60	13-14
Viscosity in Poise:	500-600
Yield Value in Dynes/cm^2:	3,000-4,000
% Solids:	98-100
% Renewable:	80-90

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Technical
Data Sheet

KB-1010

Sheetfed Vehicle

Product Description

KB-1010 is a free flow/grinding/flushing vehicle formulated to give your ink system all the properties needed for today's highest speed presses including lowest VOC's and high sustainability. **KB-1010** can be used as your dispersing vehicle to enhance your down stream ink properties. Expect very low dot gain, with excellent water balance and litho performance.

Performance Characteristics

- High solids and fast setting
- High renewable content *
- Press stable

Physical Properties

Tack @ 400 RPMs @ 1':	14.0 -16.0
Viscosity in Poise:	400-500
Yield Value in Dynes/cm^2:	2500-3500
% Solids:	98-100%
% Renewable	80 – 90%

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Technical Data Sheet

KB-1915

Sheetfed Laser Forms Vehicle

Product Description

KB-1915 is a quickset gel vehicle specifically designed for use in a wide variety of applications. **KB-1915** has a unique chemistry that allows for its application in both laser forms and conventional inks. **KB-1915** allows the ink formulation the latitude of formulating a wide variety of inks from one vehicle.

Performance Characteristics

- Medium gel

Physical Properties

Tack @ 400 rpm/1 minute:	12-14
Viscosity (Poise):	300-500
Yield (dynes/cm^2):	1500-3500
Solids:	90-92%

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Technical Data Sheet

KB-1929

Phenol Formaldehyde-Free Sheetfed Gel Vehicle

Product Description

KB-1929 is an eco friendly, hard drying 100% nonvolatile gel vehicle. The phenol formaldehyde-free and higher renewable content supports the increasing demand for cleaner and greener chemistry.

In addition to a more sustainable chemistry, it can provide significantly improved performance properties. Ink water balance, sharper print at lower tacks, and reduced tendency to mist make **KB-1929** an outstanding choice for sheetfed folding carton and commercial ink product lines.

Performance Characteristics

- Phenol formaldehyde-free
- High renewable content
- 100% nonvolatile
- Print sharpness
- Enhanced ink film hardness

Physical Properties

Tack @ 400 rpm/1 minute:	13-15
Viscosity (Poise):	1100-1300
Yield (dynes/cm^2):	25000-35000
Solids:	98-100%

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Technical
Data Sheet

KB-238

Plastic Stock Vehicle

Product Description

KB-238 is a 100% solids free flowing vehicle, with high Tung oil content, in an all phenolic resin system. Inks made with this varnish will exhibit excellent rub and film properties and is a perfect choice for non porous substrates. Drying can be controlled by varying the amounts and types of ink driers. They are compatible with a wide variety of commonly used vehicles and modifiers, including soya systems.

Performance Characteristics

- Free flowing
- Hard dry
- Excellent for non porous substrate.

Physical Properties

Tack @ 400 RPMs @ 1':	22.5-24.5
Viscosity in Poise:	700-900
Yield Value in Dynes/cm^2:	N/A
% Solids:	98 - 100%

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Technical
Data Sheet

KB-257

High Solids Linseed S.F. Gel Vehicle

Product Description

KB-257 has been a staple in the Kustom product line for years and is considered by some as a “standard of the industry” for hard dry and adhesion properties. We recommend **KB-257**, with its high solids phenolic resin system for excellent adhesion to most plastic stocks. **KB-257** gel vehicle forms a good hard film on Non-Porous substrates.

Performance Characteristics

- Adhesion to all types of non-porous substrates.
- Very high solids
- Extreme oxidative potential

Physical Properties

Tack @ 400 RPMs/1’:	14 -16.5
Viscosity in Poise:	700 -900
Yield Value in Dynes/cm^2:	20,000-28,000
% Solids:	98-100

* Because adhesion can vary greatly depending on the type of plastic, we recommend the exact lot of stock be checked in the lab prior to going to press.

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Technical
Data Sheet

KB-310

Phenolic Gloss Vehicle

Product Description

Kustom Blending's sheetfed gloss varnishes are designed for use in the highest quality offset ink systems. Inks made with these gloss varnishes will exhibit excellent rub properties and maximum finish on coated or uncoated paper or board. The set speed of these products is exceptional for vehicles of this type, while drying can be controlled by varying the amounts and types of ink driers. They are compatible with a wide variety of commonly used vehicles and modifiers, including soya systems.

Performance Characteristics

- 100% solids
- Excellent film and resistance properties
- Excellent water fighting with high viscosity

Physical Properties

Tack @ 400RPMs/1':	21.0-23.5
Viscosity in Poise:	1250-1500
Yield Value in Dynes/cm^2:	16,000-20,000
% Solids:	98-100

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Technical
Data Sheet

KB-1016

High Solids Sheetfed Gel Vehicle

Product Description

KB-1016 is formulated to give the unique combination of excellent adhesion, and oxidative dry with surprisingly fast set speed. **KB-1016** is formulated with the hottest oxidative vegetable oils and a high-end resin system.

Performance Characteristics

- Excellent adhesion to all types of plastic.
- Faster set speed then most high solids systems for plastic.
- Excellent water balance and litho performance.
- Positive oxidative drying

Physical Properties

Tack @ 400 RPMs @ 1':	11.0 – 13.0
Viscosity in Poises:	700 - 900
Yield Value in Dynes/cm2:	20,000 - 24,000
% Solids:	98 - 100%

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Technical
Data Sheet

KB-1027

High Solids S.F. Medium Gel Vehicle

Product Description

KB-1027 is an exciting new high solids sheetfed gel vehicle developed with the perfect combination of properties and price. Ink made with **KB-1027** will be high solids, have a high renewable/soya content, but will set very fast and maintain gel structure under heat and shear. This vehicle was developed to help keep you competitive in today's global market of low cost "prefab" imported ink.

Performance Characteristics

- 100% Solids
- Fast Setting
- High Renewable/Soya Content
- Cost Competitive

Physical Properties

Tack @ 400 RPMs @ 1':	11 - 13
Viscosity in Poises:	300-500
Yield Value in Dynes/cm2:	10,000-15,000
% Solids:	98-100%

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Technical
Data Sheet

KB-1074

Prop 65 Free High Solids SF Gel Vehicle

Product Description

KB-1074 is formulated to exhibit high viscosity and excellent heat and shear stability, with an all BPA free phenolic-based resin system. This vehicle creates an ink that will not break down on high speed presses and will maintain dot sharpness. Ink made with **KB-1074** is suitable for many high solids sheetfed applications including carton inks.

Performance Characteristics

- High solids
- High viscosity
- Excellent litho properties
- BPA free, Naphthalene free, Formaldehyde free

Physical Properties

Tack @ 400 RPMs/1':	18 - 22
Viscosity in Poises:	1500 - 2000
Yield Value in Dynes/cm2:	20,000 - 30,000
% Solids:	98 - 100

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Technical Data Sheet

KB-1914

100% Solids Viscosity Stable Sheetfed Vehicle

Product Description

KB-1914 combines the fast setting characteristics that one expects from the technology along with viscosity stability. Viscosity stability inherent in the resin components makes this vehicle useful for waterless printing as well as conventional high-speed sheetfed printing inks.

Performance Characteristics

- Temperature stability
- Waterless printing stability
- 100% non-volatile
- Medium gel body

Physical Properties

Tack @ 400 rpm/1 minute:	13-15
Viscosity (Poise):	1000-1300
Yield (dynes/cm^2):	13000-18000
Solids:	98-100%

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Technical Data Sheet

KB-1012

Greenmaster SF Gel Vehicle

KUSTOM GREENMASTER

Product Description

KB-1012 is the companion gel vehicle to **KB-1013 Greenmaster Free Flow Vehicle.** It is formulated to give your ink system all the properties needed for today's highest speed presses including 0% VOC's with fast set speed and excellent press stability. The **Greenmaster** Vehicle System has been developed using specific raw materials which help render a smaller environmental footprint. These "Green Polymers" are derived from naturally occurring raw materials and can be considered sustainable and renewable. The amount of "Green Polymer" contained in the **Greenmaster** vehicle system is approximately 80%. Two other exciting advantages of this new vehicle are: easy clean up on press, and improved litho performance which allows the printer to reduce etch chemistry in the fountain solution. Together, these properties help to reduce pressroom VOC's, and power consumption needed for IR which helps make your customer's pressroom more "eco-friendly." Lastly, **Greenmaster** vehicle system achieves "Green Status" without compromising finished ink properties. Typical applications include commercial sheetfed and folding carton work on paper, paperboard and other substrates

Performance Characteristics

- ~ 80% sustainable
- Fast setspeed in a 100% solids system
- Easy clean up and less etch reduces pressroom VOC's
- Excellent printability
- Excellent ink water balance
- Exceptional hold-out

Physical Properties

Tack @ 400 RPMs @ 1':	12.5-13.5
Viscosity in Poise:	950-1150
Yield Value in Dynes/cm^2:	13000-16000
% Solids:	98-100

For Your Protection:

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Technical Data Sheet

KB-1013

Greenmaster SF Free Flow Vehicle

KUSTOM GREENMASTER

Product Description

KB-1013 is the companion free flow vehicle to **KB-1012 Greenmaster Gel Vehicle.** It is formulated to give your ink system all the properties needed for today's highest speed presses including 0% VOC's with fast set speed and excellent press stability. The **Greenmaster** Vehicle System has been developed using specific raw materials which help render a smaller environmental footprint. These "Green Polymers" are derived from naturally occurring raw materials and can be considered sustainable and renewable. The amount of "Green Polymer" contained in the **Greenmaster** vehicle system is approximately 80%. Two other exciting advantages of this new vehicle are: easy clean up on press, and improved litho performance which allows the printer to reduce etch chemistry in the fountain solution. Together, these properties help to reduce pressroom VOC's, and power consumption needed for IR which helps make your customer's pressroom more "eco-friendly." Lastly, **Greenmaster** vehicle system achieves "Green Status" without compromising finished ink properties. Typical applications include commercial sheetfed and folding carton work on paper, paperboard and other substrates

Performance Characteristics

- ~ 80% sustainable
- Fast setspeed in a 100% solids system
- Easy clean up and less etch reduces pressroom VOC's
- Excellent printability
- Excellent ink water balance
- Exceptional hold-out

Physical Properties

Tack @ 400 RPMs @ 1':	12.5-13.5
Viscosity in Poise:	450-550
Yield Value in Dynes/cm^2:	3000-3500
% Solids:	98-100

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Technical Data Sheet

KB-1041

Greenmaster Mineral Oil Free S.F. Extender

KUSTOM GREENMASTER

Product Description

KB-1041 is intentionally formulated without ink oil/mineral oil or hydrocarbon resin of any type. This is related to food packaging in an indirect contact application. **KB-1041** is 100% solids but maintains very fast set speed in an ink. **KB-1041** is formulated with high end resins to exhibit excellent litho properties.

Performance Characteristics

- Contains no ink oil/mineral oil or Hydrocarbon Resin.
- Considered low odor and low migration for food packaging applications
- Excellent litho and set speed properties.
- High Solids

Physical Properties

Tack @ 400 RPMs @ 1':	11.0 - 13.0
Viscosity in Poise:	350 - 450
Yield Value in Dynes/cm^2:	3500 - 4500
% Solids:	98 - 100%
NAPIM Bio Renewable Content (BRC)	85 - 95%

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Technical Data Sheet

KB-406

100% NVM Fast Setting SF Flushing Vehicle

Product Description

KB-406 is a high solids hard drying flushing vehicle. It is an excellent choice for all nonporous substrates to promote positive dry and adhesion. **KB-406** promotes high holdout, with excellent gloss and transfer properties.

Performance Characteristics

- Excellent pigment wetting
- High oxidative potential
- Excellent water balance and litho performance.
- Excellent gloss

Physical Properties

Tack @ 400 RPMs @ 1':	16.5 – 19.0
Viscosity in Poise:	350 – 450
Yield Value in Dynes/cm^2:	N/A
% Solids	98 – 100%

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Technical
Data Sheet

KB-439

Lithomaster High Solids Sheetfed Flushing Vehicle

Product Description

KB-439 is the companion grinding/flushing vehicle to our popular Lithomaster series of high quality sheetfed vehicles. Most flushing vehicles are formulated to wet pigment only and subsequently do not have much in the way of finished ink properties. When you flush or grind in **KB-439** you can expect enhanced finished ink properties such as better litho performance, faster set speed, higher viscosity, and lower shortness ratio. **KB-439** is also an excellent choice for all nonporous substrates to promote positive dry and adhesion.

Performance Characteristics

- Excellent water balance and litho performance.
- Fast set and oxidative potential
- High viscosity
- Excellent gloss

Physical Properties

Tack @ 400 RPMs @ 1':	16.5 -19.0
Viscosity in Poise:	200-280 (Rheometer)
% Solids:	93-95%

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Technical
Data Sheet

KB-721

High Solids Acrylic SF Gel Vehicle

Product Description

KB-721 is a versatile, high solids acrylic gel, which brings polar compatibility and improves adhesion and lay to some plastic stocks. Use **KB-721** as a modifying vehicle starting at 10%, in conjunction with our high solids phenolic/tung oil plastic vehicle **KB-257,** to dial in adhesion and oxidative dry properties. **KB-721** can also be used as a modifying vehicle to standard sheetfed inks to help eliminate reticulation problems under aqueous coating on some problematic stocks.

Performance Characteristics

- Use at ~10% level to improve adhesion to all types of non-porous substrates.
- Very high solids
- May help eliminate reticulation issues under aqueous coating on some stocks.

Physical Properties

Tack @ 400 RPMs/1':	19.0 -23.0
Viscosity in Poise:	1000 -1200
Yield Value in Dynes/cm^2:	4,000-8,000
% Solids:	98-100

* Because adhesion can vary greatly depending on the type of plastic, we recommend the exact lot of stock be checked in the lab prior to going to press.

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Technical
Data Sheet

KB-732

Sheetfed Waterless Gel

Product Description

KB-732 is a Sheetfed Waterless Gel that demonstrates a large heat stability window. This allows for more forgiveness on press and no toning, even with some variation in temperature during the press run.

Performance Characteristics

- Heat stable
- Good gloss
- Very positive dry

Physical Properties

Tack @ 400 RPMs/1':	15-17
Viscosity in Poises:	1,550-1,750
Yield Value in Dynes/cm2:	10,000-15,000
% Solids:	70-72

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Technical
Data Sheet

KB-959

Universal Metallic Ink Vehicle

Product Description

KB-959 is a high quality low acid value metallic ink vehicle designed to exhibit excellent leafing characteristics and resistance to tarnish.

Performance Characteristics

- High viscosity
- Less then 12 acid value
- Suitable for sheetfed, or waterless

Physical Properties

Tack @ 400 RPMs/1':	22-26
Viscosity in Poise:	900-1100
Acid Value	< 12
% Solids:	71-73

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Technical
Data Sheet

KB-955

Tuff Stuff Vehicle for Plastic

Product Description

Use **KB-955** as a modifying vehicle for improved adhesion, film integrity, and improved solvent and chemical resistance.

Performance Characteristics

- Thoroughly cross-linked film former
- Improved adhesion
- Solvent and chemical resistance
- Very high solids
-

Physical Properties

Tack @ 400 RPMs @ 1':	N/A
Viscosity in Poise:	400-700 (Rheometer)
% Solids:	98-100%

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Technical Data Sheet

KB-1909

Metallic Ink Vehicle

Product Description

KB-1909 is a high solid, low VOC vehicle for use with metallic pigment in the manufacture of metallic bases and inks. **KB-1909** is formulated to readily disperse dry metallic pigments while maintaining leafing power.

KB-1909 is also designed to letdown that same dispersion to a finished offset ink and is capable of carrying high pigment loads with excellent transfer, leafing and shelf life. **KB-1909** has also been formulated for a low overall acid value which greatly reduces tarnishing of the metallic pigments.

Performance Characteristics

- Prevents tarnishing
- Free flow
- High solids

Physical Properties

Tack @ 400 rpm/1 minute:	27-29
Viscosity (Poise):	1700-1900
Yield (dynes/cm^2):	4000-6000
Solids:	89-91%

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Technical Data Sheet

KB-1934

Water-Resistant Gloss Varnish

Product Description

KB-1934 is a classical 100% non-volatile gloss varnish based on linseed and Tung oils. **KB-1934** is recommended for improving gloss, rub resistance, and litho properties of most sheetfed ink systems. In "work-and-turn" ink systems, as little as 5% of **KB-1934** is recommended, not only to enhance gloss, but to improve dry trapping of off-line finishing techniques.

The recommended usage of **KB-1934** for folding carton or label inks of this type is 15-25% of the ink formula. This not only enhances the gloss and rub resistance of inks of this type, but also increases the chemical resistance as well. This is especially true for labels used for liquor, soap and detergent packaging.

Performance Characteristics

- Good water balance
- High gloss
- Medium gel

Physical Properties

Tack@ 400 rpm/1 minute:	31-33
Viscosity (Poise):	4500-4800
Yield (dynes/cm^2):	18000-22000
Solids:	98-100%

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Technical
Data Sheet

KB-1039

Sheetfed Extender

Product Description

KB-1039 is a high solids, high soya content extender. KB-1039 contains no wax or drier

Performance Characteristics

- High solids
- High renewable/soya content >40%
- Press stable

Physical Properties

Tack @ 1200 RPMs @ 1':	14.0-15.5
Viscosity in Poises:	250-375
Yield Value in Dynes/cm2:	3000-3600
% Solids:	90-92%

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Technical Data Sheet

KB-1069

Greenmaster Mineral Oil Free S.F. Low Tack Extender

KUSTOM GREENMASTER

Product Description

KB-1069 is intentionally formulated without ink oil/mineral oil or hydrocarbon resin of any type. This is related to food packaging in an indirect contact application. **KB-1069** is 100% solids but maintains very fast set speed in an ink. **KB-1069** is formulated with high end resins to exhibit excellent litho properties.

Performance Characteristics

- Contains no ink oil/mineral oil or Hydrocarbon Resin.
- Considered low odor and low migration for food packaging applications
- Excellent litho and set speed properties.
- High Solids

Physical Properties

Tack @ 1200 RPMs @ 1':	14.0 - 16.0
Viscosity in Poises:	175- 250
Yield Value in Dynes/cm2:	2000 - 3000
% Solids:	98 - 100%
NAPIM Bio Renewable Content (BRC)	85 - 95%

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Technical Data Sheet

KB-1919

Sheetfed Gloss Varnish

Product Description

KB-1919 is a 100% non-volatile linseed-based gloss varnish. **KB-1919** is compatible with the full range of oils and vehicles used on offset and letterpress printing. Even though **KB-1919** has the consistency of a heavy gloss mixing varnish, its tack may be reduced quickly with only small amounts of drying oil or aliphatic diluents. This quality permits ink formulations with a high **KB-1919** content which, in turn, assures excellent gloss and rub resistance without the danger of "picking" due to excessive tack.

Performance Characteristics

- Excellent holdout and gloss
- Highly compatible
- Hard film forming and rub resistance

Physical Properties

Tack @ 400 rpm/1 minute:	7.5-9.5
Viscosity (Poise):	100-300
Yield (dynes/cm^2):	1500-3000
Solids:	98-100%

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Technical
Data Sheet

KB-1080

Prop 65 Free Drierfree Sheetfed Extender

Product Description

KB-1080 is a high solids, sheetfed extender. The set speed of this product is exceptional for a vehicle of this type. **KB-1080** contains poly wax.

Performance Characteristics

- Press Stable
- High Solids
- Hard Dry
- Drierfree
- Prop 65 Free Raw Materials

Physical Properties

Tack @ 1200 RPMs @ 1':	12.0-14.0
Viscosity in Poises:	250-450
Yield Value in Dyne/cm2:	1500-3000
% Solids:	98-100%

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Technical Data Sheet

KB-1083

Prop 65/BPA Free, Mineral Oil Free S.F. Low Tack Extender

KUSTOM GREENMASTER

Product Description

KB-1083 is intentionally formulated without ink oil/mineral oil or hydrocarbon resin of any type. This is related to food packaging in an indirect contact application. **KB-1083** is 100% solids but maintains very fast set speed in an ink. **KB-1083** is formulated with high end resins to exhibit excellent litho properties.

Performance Characteristics

- Contains no ink oil/mineral oil or Hydrocarbon Resin.
- Formulated with Prop 65 Free raw materials
- Considered low odor and low migration for food packaging applications
- Formulated with materials from the Nestle positive list
- Excellent litho and set speed properties.
- High Solids

Physical Properties

Tack @ 1200 RPMs @ 1':	14.0 - 16.0
Viscosity in Poises:	175- 250
Yield Value in Dynes/cm2:	2000 - 3000
% Solids:	98 - 100%

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Technical Data Sheet

KB-1084

Prop 65/BPA Free, Mineral Oil Free S.F. Extender

KUSTOM GREENMASTER

Product Description

KB-1084 is intentionally formulated without ink oil/mineral oil or hydrocarbon resin of any type. This is related to food packaging in an indirect contact application. **KB-1084** is 100% solids but maintains very fast set speed in an ink. **KB-1084** is formulated with high end resins to exhibit excellent litho properties.

Performance Characteristics

- Contains no ink oil/mineral oil or Hydrocarbon Resin
- Formulated with Prop 65 Free raw materials
- Considered low odor and low migration for food packaging applications
- Formulated with materials from the Nestle positive list
- Excellent litho and set speed properties.
- High Solids

Physical Properties

Tack @ 400 RPMs @ 1':	11.0 - 13.0
Viscosity in Poise:	350 - 450
Yield Value in Dynes/cm^2:	3500 - 4500
% Solids:	98 - 100%

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