

Magna Colours[®]

Water Based Inks





Why should I use Water Base Inks?

- Are your customers asking for non-pvc screen printing ink alternatives?
- Do you desire a water base ink system that can be used on both light and dark colored backgrounds?
- Do you want a printed garment that can be ironed and dry cleaned?
- Is partnering with an ink manufacturer who offers the best solutions to the environmental demands of the retailers and major brands important to you?
- Do you desire an ink system that cleans up without solvents?
- Is the cost effectiveness of one set of pigment concentrates that can be used in all Magna bases of interest to you?

Nazdar SourceOne is the master distributor in North America for the quality Magna water base products. Our geographic footprint and technical sales team grants us the ability to meet all of our customer's screen printing ink needs.



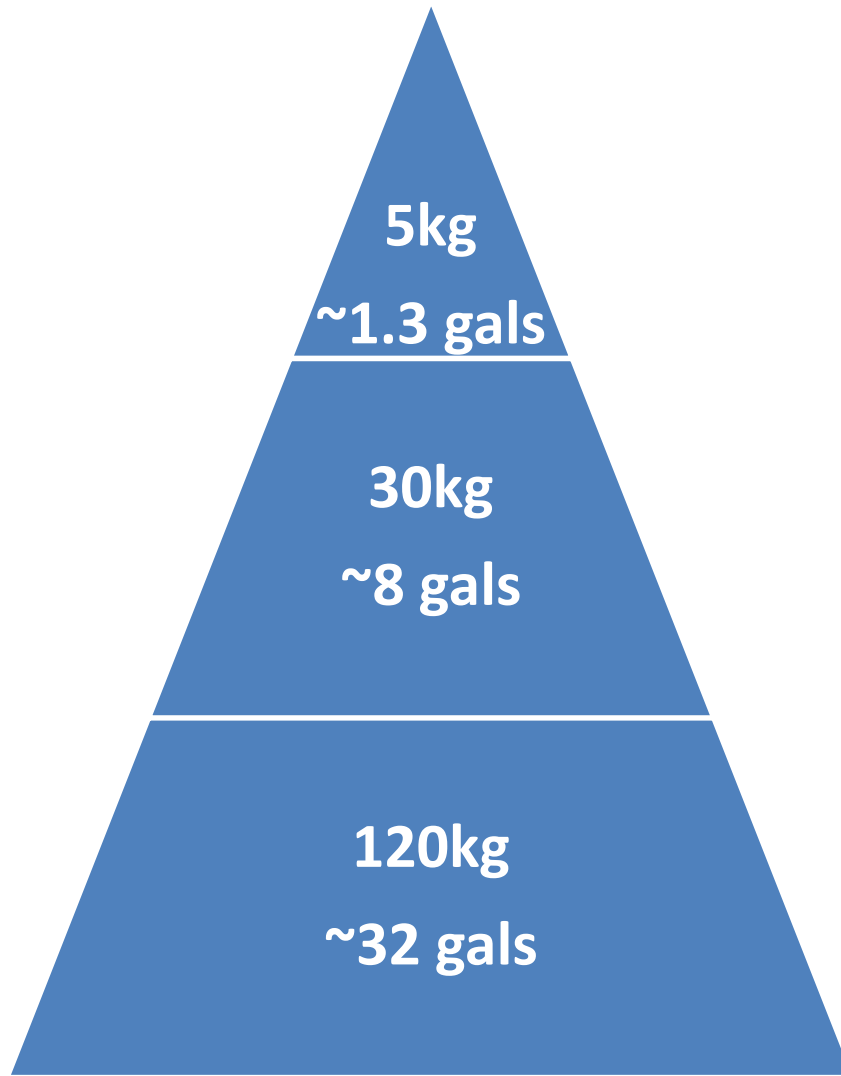
Water base ink consists of three primary categories of ink chemistry:

- ***Soft Bases*** – Transparent inks designed for printing on 100% cotton light and colored backgrounds (pastels and whites). The resultant print exhibits ultra soft feel.
- ***High Solids Bases*** – Opaque inks designed for printing on 100% cotton dark colored backgrounds. The resultant print exhibits excellent coverage while maintaining a very soft feel.
- ***Discharge Bases*** – Inks designed to print on 100% cotton reactive dyed dark colored garments. The discharge ink reacts with the dyes resulting in a “bleaching” process – the ink color replaces that of the garment color resulting in bright colors with extremely soft feel. Many times, discharge bases are used as under prints with plastisols printed on top.



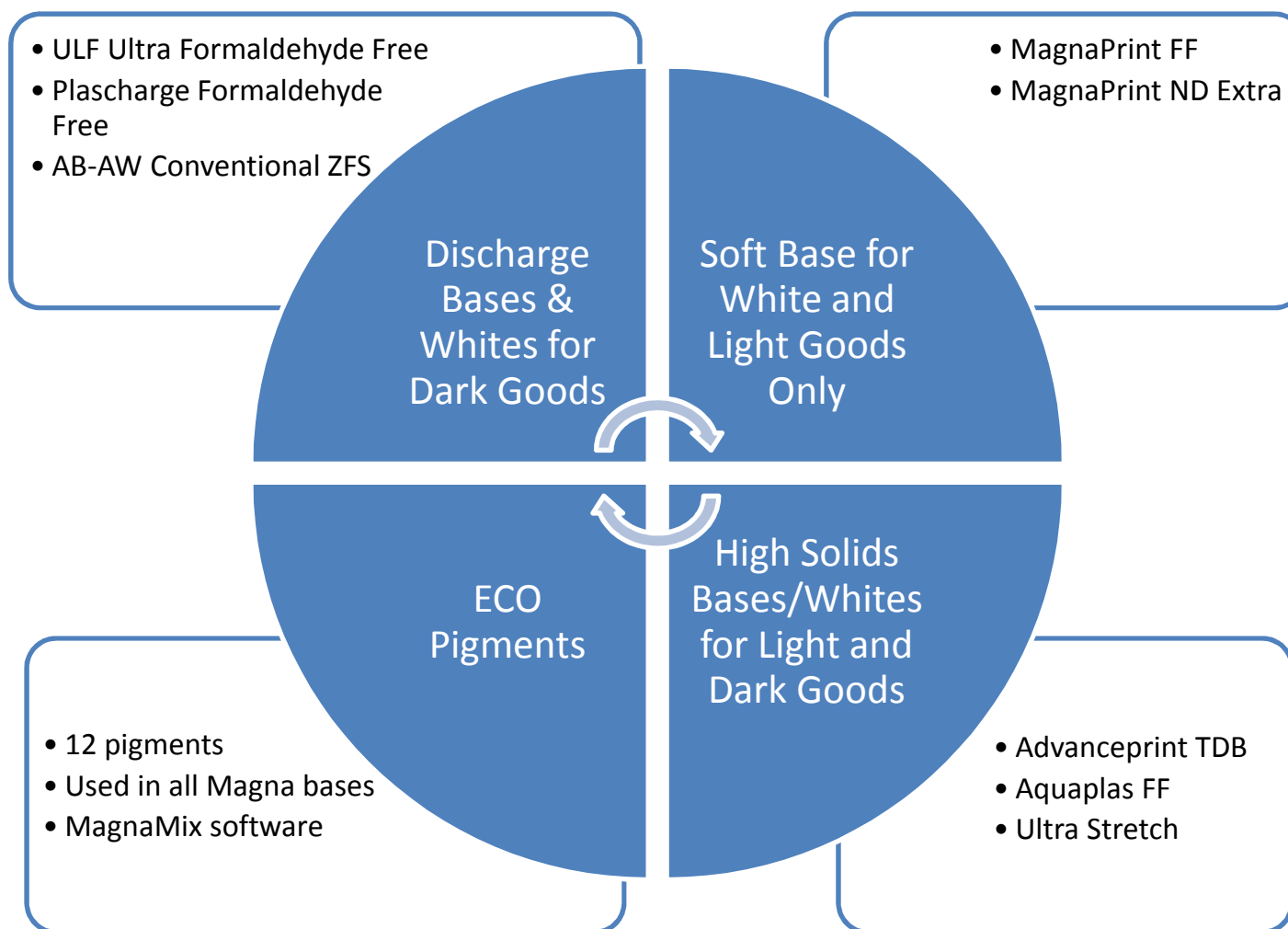
Who is Magna Colour and what is MagnaPrint®?

- Established in 1978, Magna Colours Ltd manufactures environmentally aware water based printing inks.
- Magna Colours has never used PVC or phthalates and as such their developments are at the forefront of available water based technologies.
- MagnaPrint is a line of water based screen inks for apparel printing.
- The Magnaprint product range consists of:
 - Soft Bases for white and light garment printing.
 - High Solids Bases and Whites for dark garment printing.
 - Patented formaldehyde free discharge system for dark garment printing.
 - One pigment set used in ALL bases.
 - Inks that are APEO free.



- MagnaPrint products are packaged by weight (kilogram).
- Many competitors package by volume (gallon).
- Utilize the Conversion Calculator for “apples-to-apples” pricing comparison!

Core Magna Product Offering



What is the MagnaPrint® Line?

- Discharge Bases
 - Patented formaldehyde-free ULF Ultra Range.
 - Formaldehyde-free Plascharge
 - Conventional ZFS based discharge system (formaldehyde containing).
- Soft Bases
 - Designed for printing on whites and light grounds.
- High Solids
 - Opaque ink designed for printing on both light and colored grounds.
- MagnaPrint ECO Pigments
 - Pigment set utilized in conjunction with MagnaMix all the Magna Bases.
 - Color recipes in MagnaMix software download.
- Specialties
 - Range of unique special effect inks.
- Additives
 - Full range of modifiers to maximize the MagnaPrint ink's performance.



Discharge ULF Ultra

- Patented Formaldehyde Free Discharge System.
 - Unique to Magna Colours ULF
 - Entirely free of formaldehyde; < 7ppm formaldehyde straight from the dryer
- No harmful or distracting odors in the workplace.
- Garments can be worn immediately; no washing required.
- Products include Base, Blending White, and Super White.
- Requires 6% addition of Discharge Activator M.
 - Shelf life of 4-5 hours after activation.
- Can be tinted with up to 6% ECO pigments.
- 110-200 mesh range.

Note that Activator M cannot be shipped by air

Plascharge

- Formaldehyde Free Discharge Base for Plastisol.
- Requires 6% addition of Discharge Activator M.
 - Shelf life of 4-5 hours after activation.
- 110-200 mesh range.
- For use as a Plastisol Hybrid:
 - Mix 50/50 with Plastisol White or finished ink.
 - Cure discharge printed pieces at regular plastisol speeds in dryer.
- For use as an under base:
 - Print activated Plascharge by itself. Flash under base before printing additional colors.

Please note: When Plascharge is mixed with plastisol color, the discharge agent may bleach some ink pigments, specifically some reds, maroons and blues.

Discharge AB-AW

- Conventional Zinc Formaldehyde Sulfoxylate (ZFS) based discharge ink.
- As with all ZFS inks, printed garments should be washed prior to wearing.
- Superb discharge and color development on suitable garments.
- Cost effective solution for garments undergoing washing prior to retail.
- Products include Base, White, and Super White.
- Requires addition of 6% MagnaPrint Activator AB.
 - Shelf life up to 12 hours after activation.
- Can be tinted with up to 6% ECO pigments.
- 110-200 mesh range.



Powder Activator is required for use with all discharge products. Be certain to purchase enough activator with your discharge order!

Discharge Ink

Activator Needed

5 kg → **~ 1/3 kg**

30 kg → **~ 2 kg**

120 kg → **~ 7 kg**



- Use only 100% Cotton Garments which use reactive dyes.
- Avoid garments that have been re-dyed.
- Royals, Kelly Green, Gold, and Purples generally do not discharge well.
- A garment's ability to discharge can vary across dye lots.
- The discharge will occur when the water is fully evacuated from the printed ink film.
- Discharge inks colors will vary across different color garments.
- Be certain to completely stir-in the activator, wait 10 minutes and re-stir to ensure it is fully dissolved.
- The discharge ink must penetrate the fabric in order to achieve bright discharge and soft hand.
- Avoid the use of flash units when printing discharge colors. For best results print wet on wet.
- Test before you start a production run!



Ready to use bases suitable for printing on white and light backgrounds.
Can be tinted with up to 6% ECO pigments.

MagnaPrint FF

- Best for large open areas.
- Mesh count range from 110-200.
- Soft handle (feel) and excellent wash durability.

MagnaPrint ND Extra

- Designed for use with fine mesh screens, tonal work or four color process.
- Mesh count range from 200-305.
- Non-drying formulation results in unsurpassed screen open time.
- Super soft handle (feel) and excellent wash durability.



High Solids acrylic technology bases suitable for printing on light or dark cotton backgrounds. Both products available in white and neutral (base) and exhibit a soft, flexible handle (feel).

Advanceprint TDB

- Non-drying in the screen.
- Excellent flash and superior wash durability.
- Suitable for high mesh counts – tonal printing and four color process.
- 110-305 mesh range.
- Can be tinted with up to 12% ECO pigments.

AquaPlas FF TDB

- High Opacity range suitable for solid print areas.
- 110-160 mesh range.
- Can be tinted with up to 6% ECO pigments.

For best results on dark garments, use Aquaplas White as an underbase coat, and Advance print colors on top. The bases are fully compatible!



Ultra Stretch

- High solids water based ink designed to give superb elasticity on knitted fabrics.
- It gives a good degree of coverage/hiding power, ultra high elasticity and excellent washing fastness.
- Non-drying in the screen.
- Available in White and Base (Neutral)
- 86-110 mesh range.
- Recommend a print-flash-print technique to achieve excellent elasticity.
- Can be tinted with up to 6% ECO pigments.



- Environmentally friendly pigment concentrates
- Can be used with all MagnaPrint® bases
- Strong color concentration
 - Significantly stronger than competitive offerings; reference comparison chart for details.
- Complemented by MagnaMix formulation guide



Free Download
www.magnacolour.com



**Only 12
pigments
in the
MagnaMix
System**



Part #: MAGNAKIT

Description: 4oz MagnaMix ECO Pigment Kit

MAGNAKIT – contains one 4 oz. size squeeze bottle each of the 12 MagnaMix pigments.

*Order the Magnakit for \$97.50 and receive 1x5kg pail of your favorite Magna base for **FREE!***

- MCG5983K5 Magnaprint Discharge Base ULF Ultra
- MCG5665K5 Magnaprint Discharge Base AB-AW
- MCG6131K5 Advanceprint Neutral TDB NJ
- MCG6194K5 Aquaplas Neutral FF
- MCG5843K5 Magnaprint ND Extra
- MCG045K5 Magnaprint FF New



*Available for sale as a kit only.
Individual bottles are not offered for sale.*



- **Glitter Binder QPUK**
 - Soft, clear glitter paste with excellent wash fastness properties.
- **Suede Foam**
 - Puff ink with suede or mock-flock type feel.
- **Foam LT**
 - High rise, popcorn effect foam.
- **Expanding LT**
 - High loft expanding ink with rubber feel.
- **Ultra Stretch**
 - High stretch base & white for sportswear/lycra containing fabrics
- **Flockbinder VSF**
 - Flockbinder for electrostatic flock.
- **Burnout**
 - Devore' effect (velvet fabric with raised patterns) on suitable poly/cotton fabrics.
- **Pearl Neutral**
 - Base for metallic effects. Tint with MagnaPrint Eco pigments.
- **Gold Binder SF-N**
 - High fastness binder for use with metallic Powders.
- **Self Crack**
 - Cracks in the dryer (used in conjunction with Self Crack Underbase).
- **Crackle**
 - Crackle effect (crack by hand).



- **Crosslinker 100**
 - Additive to reduce cure time/temp for MagnaPrint Bases. Room temp curing in 48-72 hours.
- **Crosslinker 200**
 - Double strength of 100; particularly suitable for flock printing.
- **Ecofix NF**
 - Formaldehyde free Crosslinker to improve wash and rub fastness.
- **Retardent Gel**
 - Improves open time in the screen.
- **Softener TS Concentrate**
 - Additive to improve hand/feel, printability, and dry rub fastness.
- **Hydrophil**
 - Additive to improve print penetration on water resistant fabrics.
- **Clear CSP**
 - Thickener for increasing product viscosity
- **Binder Flex FF**
 - Improves fastness for high pigment loadings.
 - Reduces viscosity of Aquaplas range while maintaining fastness and stretch.
- **Detergent WB**
 - Screen cleaning detergent



- **Emulsion** – Water Resistant emulsion must be used. Full screen exposure is imperative.
- **Containers** – Keep ink buckets sealed.
- **Spray Bottle** – Keep a spray bottle of water at press to help ink from drying in as needed.
- **Screens on Press** – Minimize air movement across the inked screens.
- **Print Settings** – Set the cycle to print then flood, keeping ink over the image area at all time. Decrease the flood bar pressure to allow for more ink to flow across the image area.
- **Squeegees & Pressure** – Use medium to soft squeegees (60-65 durometer), 40-50 psi pressure, and medium squeegee speed. This will ensure optimal opacity and sharpness.
- **Registration** – Use only a small amount of ink during registration to avoid any potential drying in the screen.
- **Off Contact** – Use 3-4 mm off contact; it allows the squeegee to better clear the mesh and results in sharper prints.



- **Mesh counts** – Use lower mesh counts for solid areas and underbasing. 110-156 mesh screens are recommended.
- **Design set up** – Place the screens from small print area to large, and print the highlight white as the last screen.
- **Flash units** – Where possible, leave an empty print head after the flash as a cool down station.
- **Curing** – Ensure that the dryer is set to fully cure the ink. Follow the time and temperature recommendations on the Technical Data Sheets.
- **Airflow** – Air circulation in the dryer is imperative to fully cure the printed ink film.
- **Dryers** – Check and adjust regularly. Changing humidity levels can affect required time as garments absorb the moisture from the air.



MagnaPrint Product Listing



Discharge

SourceOne Item Number	Description	U/M Pack KG
DISCHARGE - NON-FORMALDEHYDE		
MCG5983K5	Magnaprint Discharge Base ULF Ultra	5
MCG5983K30	Magnaprint Discharge Base ULF Ultra	30
MCG5983K120	Magnaprint Discharge Base ULF Ultra	120
MCG5989K5	Magnaprint Discharge Blending White ULF Ultra	5
MCG5989K30	Magnaprint Discharge Blending White ULF Ultra	30
MCG5989K120	Magnaprint Discharge Blending White ULF Ultra	120
MCG5988K5	Magnaprint Discharge Superwhite ULF Ultra	5
MCG5988K30	Magnaprint Discharge Superwhite ULF Ultra	30
MCG5988K120	Magnaprint Discharge Superwhite ULF Ultra	120
MCG5210K5	Magnaprint Plascharge	5
MCG5210K30	Magnaprint Plascharge	30
MCG5210K120	Magnaprint Plascharge	120
MCG941K2	Magnaprint Activator M	2
DISCHARGE - STANDARD		
MCG5665K5	Magnaprint Discharge Base AB-AW	5
MCG5665K30	Magnaprint Discharge Base AB-AW	30
MCG5665K120	Magnaprint Discharge Base AB-AW	120
MCG5666K5	Magnaprint Discharge White AB - AW	5
MCG5666K30	Magnaprint Discharge White AB - AW	30
MCG5666K120	Magnaprint Discharge White AB - AW	120
MCG5609K5	Magnaprint Discharge Super White AB AW NJ	5
MCG5609K30	Magnaprint Discharge Super White AB AW NJ	30
MCG5609K120	Magnaprint Discharge Super White AB AW NJ	120
MCWX198K1	Magnaprint Discharge Activator AB	1
MCWX198K5	Magnaprint Discharge Activator AB	5
MCWX198K50	Magnaprint Discharge Activator AB	50

Soft Base / High Solids

SourceOne Item Number	Description	U/M Pack KG
SOFT BASES		
MCG045K30	Magnaprint FF New	30
MCG045K120	Magnaprint FF New	120
MCG5843K30	Magnaprint ND Extra	30
MCG5843K120	Magnaprint ND Extra	120
HIGH SOLIDS		
MCG6120K5	Advanceprint White TDB NJ	5
MCG6120K30	Advanceprint White TDB NJ	30
MCG6120K120	Advanceprint White TDB NJ	120
MCG6131K5	Advanceprint Neutral TDB NJ	5
MCG6131K30	Advanceprint Neutral TDB NJ	30
MCG6131K120	Advanceprint Neutral TDB NJ	120
MCG6195K5	Aquaplas White FF	5
MCG6195K30	Aquaplas White FF	30
MCG6195K120	Aquaplas White FF	120
MCG6194K5	Aquaplas Neutral FF	5
MCG6194K30	Aquaplas Neutral FF	30
MCG6194K120	Aquaplas Neutral FF	120
MCG5855K5	Magna Ultra Stretch White	5
MCG5855K30	Magna Ultra Stretch White	30
MCG5854K5	Magna Ultra Stretch Neutral	5
MCG5854K30	Magna Ultra Stretch Neutral	30



MagnaPrint Product Listing



Specialties

SourceOne Item Number	Description	U/M Pack KG
SPECIALTIES		
MCG4949NK5	Magnaprint Glitter Binder QPUK	5
MCG4949NK30	Magnaprint Glitter Binder QPUK	30
MCG5386NK5	Magnaprint Gold Binder SF-N	5
MCG5386NK30	Magnaprint Gold Binder SF-N	30
MCG115ENK5	Magnaprint ECO Pearl Neutral	5
MCG115ENK30	Magnaprint ECO Pearl Neutral	30
MCG1977NK5	Magnaprint Silver SF	5
MCG1977NK30	Magnaprint Silver SF	30
MCG1989NK5	Magnaprint Dark Gold SF	5
MCG1989NK30	Magnaprint Dark Gold SF	30
MCC370EXK5	Magnaprint Suede Foam	5
MCC370EXK25	Magnaprint Suede Foam	25
MCC330EXK5	Magnaprint Expanding LT	5
MCC330EXK25	Magnaprint Expanding LT	25
MCG4951NK5	Magnaprint ECO Flockbinder VSF	5
MCG4951NK30	Magnaprint ECO Flockbinder VSF	30
MCG286185K25	Magnaprint Burn Out Base	25
MCK060EK5	Magnaprint Burn Out Activator	5
MCG5203NK5	Magnaprint Crackle White	5
MCG5203NK30	Magnaprint Crackle White	30
MCG5267K5	Magnaprint Crackle Neutral	5
MCG5267K30	Magnaprint Crackle Neutral	30
MCG5638K5	Magnaprint Self Crack	5
MCG5638K30	Magnaprint Self Crack	30
MCG6063K5	Magnaprint Self Crack Base	5
MCG6063K30	Magnaprint Self Crack Base	30
MCG5855K5	Magna Ultra Stretch White	5
MCG5855K30	Magna Ultra Stretch White	30
MCG5854K5	Magna Ultra Stretch Neutral	5
MCG5854K30	Magna Ultra Stretch Neutral	30

Additives

SourceOne Item Number	Description	U/M Pack KG
ADDITIVES		
MCS601K1	Magnaprint Crosslinker 100	1
MCS601K5	Magnaprint Crosslinker 100	5
MCI575K1	Magnaprint Clear CSP	1
MCI575K5	Magnaprint Clear CSP	5
MCL702K5	Magnaprint Ecofix NF	5
MCA620EK5	Magnaprint Hydrophil M	5
MCG5567K1	Magnaprint Retardent Gel	1
MCG5567K5	Magnaprint Retardent Gel	5
MCG6054EK1	Magnaprint Softener TS Conc	1
MCG6054EK5	Magnaprint Softener TS Conc	5
MCB525EK5	Magnaprint Detergent WB	5
MCL70525K1	Magnaprint Crosslinker 200	1
MCL70525K5	Magnaprint Crosslinker 200	5
MCK047MK1	Magnaprint Binder Flex FF	1
MCK047MK5	Magnaprint Binder Flex FF	5
MCT4362K25	Magnacide KB-NF	25



MagnaPrint Product Listing



MagnaMix System Pigments

SourceOne Item Number	Description	U/M Pack KG
MAGNAMIX PIGMENTS		
MCP920A35K1	ECO Pink H5B	1
MCP920A35K5	ECO Pink H5B	5
MCP920A35K35	ECO Pink H5B	35
MCP918AK1	ECO Orange HO	1
MCP918AK5	ECO Orange HO	5
MCP918AK35	ECO Orange HO	35
MCP210K1	ECO Yellow HG	1
MCP210K5	ECO Yellow HG	5
MCP210K30	ECO Yellow HG	30
MCP245K1	ECO Green HB	1
MCP245K5	ECO Green HB	5
MCP245K35	ECO Green HB	35
MCP908K1	ECO Navy HR	1
MCP908K5	ECO Navy HR	5
MCP908K30	ECO Navy HR	30
MCP962K1	ECO White HW	1
MCP962K5	ECO White HW	5
MCP962K30	ECO White HW	30

SourceOne Item Number	Description	U/M Pack KG
MAGNAMIX PIGMENTS		
MCP162K1	ECO Black NG	1
MCP162K5	ECO Black NG	5
MCP162K30	ECO Black NG	30
MCG5757K1	ECO Red GRL	1
MCG5757K5	ECO Red GRL	5
MCG5757K30	ECO Red GRL	30
MCP6127K1	ECO PC Rubine Red	1
MCP6127K5	ECO PC Rubine Red	5
MCP6127K30	ECO PC Rubine Red	30
MCP6126K1	ECO PC Purple	1
MCP6126K5	ECO PC Purple	5
MCP6126K30	ECO PC Purple	30
MCP6124K1	ECO PC Process Blue	1
MCP6124K5	ECO PC Process Blue	5
MCP6124K30	ECO PC Process Blue	30
MCP6125K1	ECO PC Reflex Blue	1
MCP6125K5	ECO PC Reflex Blue	5
MCP6125K30	ECO PC Reflex Blue	30



MagnaPrint Product Listing



Other Pigments

SourceOne Item Number	Description	U/M Pack KG
OTHER PIGMENTS		
MCP225K1	ECO Red HG	1
MCP225K5	ECO Red HG	5
MCP225K30	ECO Red HG	30
MCP220K1	ECO Red HB	1
MCP220K35	ECO Red HB	35
MCP205K1	ECO Yellow HR	1
MCP205K5	ECO Yellow HR	5
MCP205K30	ECO Yellow HR	30
MCP904K1	ECO Blue HG	1
MCP904K5	ECO Blue HG	5
MCP904K30	ECO Blue HG	30
MCP902K1	ECO Blue HB	1
MCP902K5	ECO Blue HB	5
MCP90235	ECO Blue HB	35
MCP815K1	ECO Violet H4B	1
MCP815K5	ECO Violet H4B	5
MCP815K35	ECO Violet H4B	35
MCP955A30K1	ECO Brown HNW	1
MCP955A30K5	ECO Brown HNW	5
MCP955A30K30	ECO Brown HNW	30

SourceOne Item Number	Description	U/M Pack KG
OTHER PIGMENTS		
MCP635K1	ECO Fluo Pink	1
MCP635K5	ECO Fluo Pink	5
MCP635K30	ECO Fluo Pink	30
MCP630K1	ECO Fluo Red	1
MCP630K5	ECO Fluo Red	5
MCP630K30	ECO Fluo Red	30
MCP640K1	ECO Fluo Blue	1
MCP640K5	ECO Fluo Blue	5
MCP640K30	ECO Fluo Blue	30
MCP645K1	ECO Fluo Green	1
MCP645K5	ECO Fluo Green	5
MCP645K30	ECO Fluo Green	30
MCP620K1	ECO Fluo Yellow	1
MCP620K5	ECO Fluo Yellow	5
MCP620K30	ECO Fluo Yellow	30
MCP625K1	ECO Fluo Orange	1
MCP625K5	ECO Fluo Orange	5
MCP625K30	ECO Fluo Orange	30



For additional information and Technical Data Sheets,
please visit:

http://www.sourceoneonline.com/magna_colours.asp