

FlexaTrac™ - DMS

PRINTING INK SOLVENTS

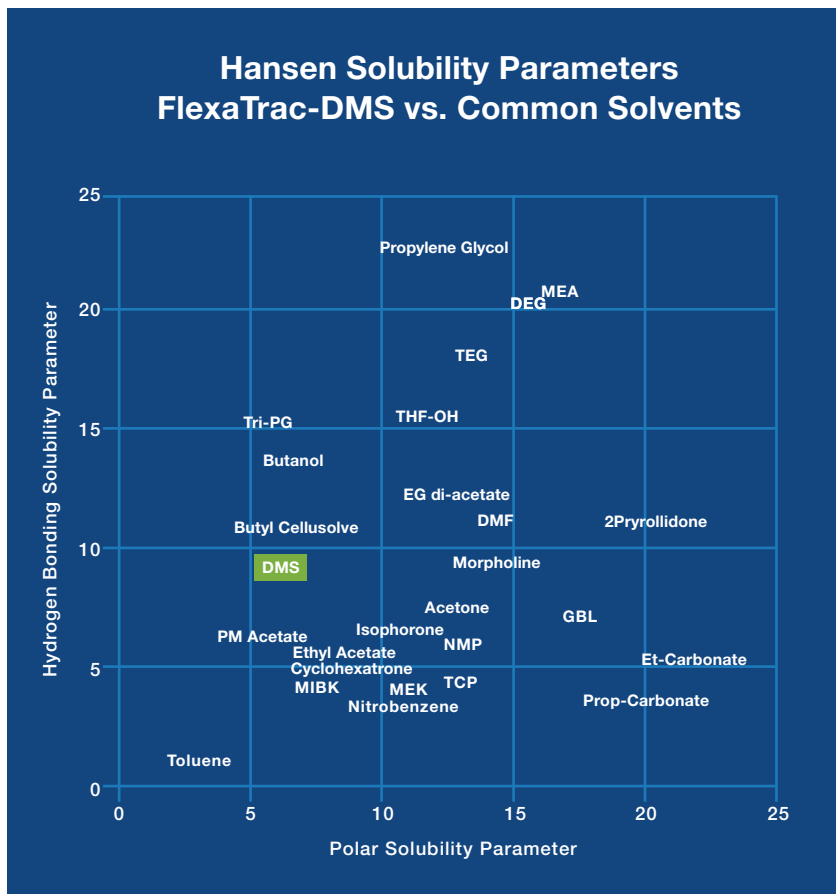
FlexaTrac-DMS

	FlexaTrac-DMS-400
Chemical Properties	
Dimethyl Succinate, wt. %	98.5 min.
Acid Content, mg KOH/g, max.	0.1
Water Content, wt. %, max.	0.1
Methanol Content, wt. %, max.	0.1
Color, APHA, max.	15
Physical Properties	
Molecular Weight	146
Distillation Range, °C	192-201
Density, #/gal, @ 25°C	9.28
Specific Gravity @ 25°C	1.112
Viscosity, cps, @ 25°C	3.91
Solubility in Water, wt. %	10.3
Water Solubility in DMEs, wt. %	4.0
Freezing Point, °C	16.8
Flash Point, °F (Pensky-Martin cc)	201
Flash Point, °C (Pensky-Martin cc)	94
Surface Tension, dynes/cm	34.6
Electrical Resistance, megohms	1.3
Vapor Pressure, @ 20°C (Torr)	0.12

*NOTE: Product specifications are subject to change without notice. Please write or call us for our current product specifications.

FlexaTrac-DMS-400 can be used as a solvent for oil-based inks. FlexaTrac-DMS-400 solvates ink binders such as acrylics and polyvinyl chloride (PVC). FlexaTrac-DMS-400 helps even out pigment distribution in ink for uniform color.

FlexaTrac-DMS-400 can make up a loading level of 10-50% wt. in inks. Most ink compositions can also take advantage of FlexaTrac-DMEs in combination with FlexaTrac-DMS-400.



FlexaTrac-DMS-400 is used as ink solvents to make the ink flow so that it can be transferred to the printing surface with following advantages over other ink solvents:

- **Controlled evaporation rate** - Less need to replace solvents during the handling process
- **Not considered as HAP and is biodegradable** - Reduction of the fugitive emissions
- **Excellent resin and pigment solvency** - For uniform film with good gloss and color retention
- **Higher boiling and flash points** - Can be applied on substrates that can take higher temperatures up to 180°C



FlexaTrac-DMS-400 Applications

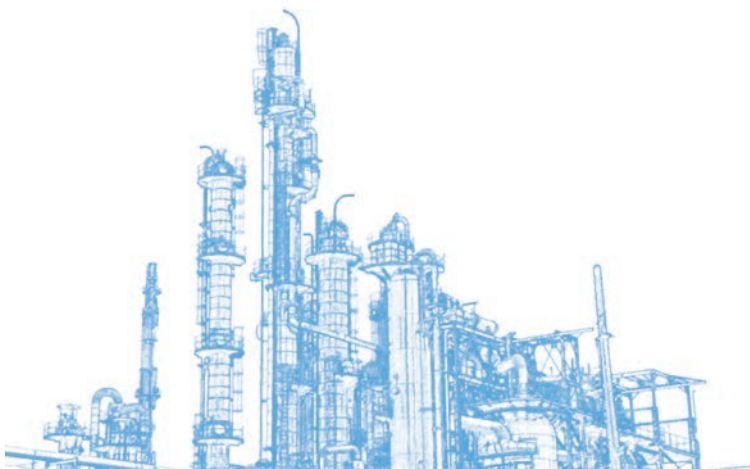
- Film packaging
- Wrapping paper
- Furniture laminates
- Paneling
- Wall paper
- Greeting cards
- Magazines

Solvents	Molecular Weight	Density 25°C (g/ml)	Boiling Point at 760 mm Hg (°C)	Relative Evaporation Rate ¹	Viscosity (cp) 25°C	Function	Applications
FlexaTrac-DMS-400	146.0	1.114	196	2.6	2.78	Active, Co-solvent & evaporation retardant	Flexographic & Gravure inks
Ethylene glycol ethyl ether acetate (EEA)	132.1	0.971	156	19	1.20	Co-solvent & evaporation retardant	Flexographic & Gravure inks
Propylene glycol methyl ethyl ether acetate	132.1	0.962	145	37	1.09	Active & evaporation retardant	Gravure ink (for paper)
Ethoxy propanol²	104.1	0.897	133	41	2.12	Active & evaporation retardant	Gravure ink (for paper)
n-propanol	60.0	0.880	97	93	1.97	Co-solvent	Flexographic ink (for polyethylene)
Ethanol	46.07	0.782	78.4	170	1.10	Active	Flexographic & Gravure inks
n-propyl acetate	102.1	0.884	101	230	0.55	Co-solvent	Flexographic & Gravure inks
Methyl ethyl ketone	72.10	0.801	80	403	0.43	Active	Flexographic & Gravure inks
Ethyl acetate	88.11	0.898	77	494	0.43	Co-solvent	Gravure ink (for paper)

1. To n-Butyl acetate (nBA) nBA = 100 at 25°C

2. Propylene glycol mono ethyl ether

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About Ascend

Headquartered in Houston, Texas, Ascend Performance Materials is one of the world's largest fully-integrated producers of nylon 6,6 resin. As the world's only large-scale converter of acrylonitrile to adiponitrile, Ascend is uniquely positioned for the production of dozens of amines, acids, esters and intermediates used in a variety of end applications. Our integrated manufacturing processes allow us to produce a wide range of specialty chemicals. Ascend's specialty chemicals are used in hundreds of brand-name adhesives, coatings, cleansers and detergents. Ascend manufactures chemicals at its facilities in Texas, Alabama and Florida.

For more information on our specialty chemicals visit us at www.ascendmaterials.com/specialtychemicals

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