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**Gellner Industrial, LLC**  
*water based industrial polymers*

[www.gellnerindustrial.com](http://www.gellnerindustrial.com)

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### Polymers for Industry

- Printing Inks – Graphic Arts Applications
- Paint Additives – Generating Low VOC Paints
- Industrial Coatings – Chemicals Resistance

105 TIDE ROAD – HOMETOWN, PA 18252 – USA

Phone (570) 668-8800

# Ottopol Product Guide

Name	Solids	pH	Viscosity	Tg	Attributes
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## *Anionic Polymers*

25-50E	49-51%	6.0-7.0	250-2000 cps	43	Converts into low cost solution polymer for pigment grinding and high gloss flexo and gravure inks
25-30	29-31%	8.0-9.0	2000-4000 cps	43	Ammonia cut version of 25-50E. Solution polymer with good adhesion to non-porous surfaces
CS-58	44-46%	8.0-9.0	200-500 cps	12	Binder for house paints and binder for pigment dispersion
G-35	29-31%	8.0-9.0	200-400 cps	48	Solution polymer with acid number of 200. Suitable as grinding vehicle and high gloss inks & varnishes
M-30	29-31%	7.0-8.0	1000-2000 cps	43	DMEA cut version of 25-50E. Suitable for metallic and florescent inks
M-49	48-50%	8.0-9.0	200-500 cps	20	Acrylic Emulsion for Metallic ink or paint vehicle. Excellent adhesion properties, exceptional stability and brilliance with metallic pigments. Also, has good water resistance
S-30	42-44%	8.0-9.0	500-1500 cps	-20	Emulsion with low Tg for adhesion to plastic films. Suitable for flexo or gravure
S-50	42-44%	8.0-9.0	500-1500 cps	0	Emulsion polymer with good adhesion to non-porous surfaces
S-75	43-45%	8.0-9.0	500-1500 cps	25	Film forming emulsion polymer suitable for inks & coatings on paper and board
S-100	43-45%	8.0-9.0	500-1500 cps	50	Non-film form emulsion polymer for glossy flexo and gravure inks
SX-30	40-42%	8.0-9.0	500-1500 cps	-20	Self cross-linking emulsion for flexo or gravure printed films
SX-50	40-42%	8.0-9.0	500-1500 cps	0	Self cross-linking emulsion with good adhesion to non-porous surfaces
SX-75	41-43%	7.5-8.5	500-1500 cps	25	Self cross-linking emulsion with good gloss for flexo and gravure printing
SX-100	41-43%	8.0-9.0	500-1500 cps	50	Self cross-linking emulsion, non-film forming for glossy flexo and gravure inks
SF-42	41-43%	7.5-8.5	100 cps Max	5	Compatible with water reducible alkyds
SF-45	44-46%	8.0-9.0	500 cps Max	39	Self cross-linking emulsion, non-film forming for Furniture Coating, Excellent Alcohol Resistance

## *Non-Ionic Polymers*

502	42-43%	6.5-7.5	200 cps max	88	Hard non-film forming polymer, used to provide block resistance and maintain good resistance properties.
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***Hydroxyl Functional Polymers that are Low Temperature Cure (220°F)***

AX-25	24-26%	8.0-9.0	1000-2000 cps	32	Hydroxyl Functional Anionic Acrylic Polymer. Will crosslink at room temperature with polyisocyanates and epoxy silanes.
522	44-46%	6.5-7.5	500-1500 cps	105	Hard acrylic emulsion with Hydroxyl functionality, crosslinks with melamine and epoxy resins for excellent solvent resistance. Used as a coating for metal. This polymer when cured has excellent resistance to many solvents and liquids. Also has salt fog resistance.
510-28	27-29%	8.0-9.0	2000-4000 cps	32	Flexible solution with Hydroxyl functional acrylic, crosslinks with melamine and epoxy resins. Excellent salt fog resistance

***Cationic Polymers***

K-12	42-44%	5.0-6.0	200-800 cps	0	Acrylic Emulsion polymer for rust converting primer. Converts rust to black iron oxide.  Stain Blocking Primer. Forms a resistant barrier to water soluble tannins and prevents topcoats from staining and retarded drying. It is resistant to tannin and nicotine stains and out performs all other attempts of solving the bleeding of stains.
K-21-30	29-31%	5.0-6.0	200-400 cps	43	Solution polymer for alkali resistance and adhesion to non-porous substrates
K-362	29-31%	5.0-6.0	200-400 cps	43	Solution polymer for alkali resistance and adhesion to non-porous substrates
K-633	27-29%	5.0-6.0	200-400 cps	44	Solution polymer for alkali resistance and adhesion to non-porous substrates, improved solubility
K-23	41-43%	5.0-6.0	200-500 cps	26	Emulsion polymer for alkali resistance and adhesion to non-porous substrates
K-65	35-37%	5.0-6.0	200-800 cps	81	Hard emulsion polymer for alkali resistance. Non-ionic pigment concentrates can be let down with K-65 to produce printing inks and coatings. A clear coating or overlay varnish may be formulated as well. The addition of a coalescent solvent such as Texanol will aid in film formation. The positive charge allows inks and coatings to have exceptionally good adhesion to plastic films: Mylar, PVC, and polystyrene. Adhesion to foil and other metallic surfaces is excellent.
K-66	39-41%	5.0-6.0	200-500 cps	87	Hard emulsion polymer for alkali resistance
KX-99	29-31%	5.0-6.0	300-800 cps	32	Hydroxyl Functional Cationic Acrylic Solution, crosslinks at ambient or elevated temperature for solvent resistant coating
KX-101	37-39%	5.0-6.0	500-1500 cps	32	Hydroxyl Functional Cationic Acrylic Emulsion, crosslink at room temperature with polyisocyanates and epoxy silanes.



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