

Paper manufacturing and finishing



PRODUCTNAME	APPLICATIONS / SPECIAL FEATURES
PAPER MANUFACTURING	
DISPERGATOR STEL CONC.	Auxiliary for dithionit-bleaching of DIP, wood-pulp or TMP. Chelates metal-hydroxides and therefore increases the paper whiteness.
DISPERGATOR II	Dispersing agent for kaolin-fillers for SC- and newsprint papers, as well as decorative and artprint qualities.
POLYGONAL P0	Phosphorous-free chelating- and dispersing-additive as stabilizer for DIP-bleaching dispersions (dithionite-bleaching). Especially for heavymetals and alkalimetals. Effective at low dosage and readily biodegradable.
POLYGONAL PC 1118 CONC.	Chelating- and dispersing-additive for peroxide and dithionit bleaching. Forms colourless complex with iron- and manganese-ions and therefore improves the whiteness of especially woodpulp- and DIP-papers.
PAPER MANUFACTURING AND FINISHING	
POLYGONAL M-350 NEW	Liquid, water miscible fluorescent marker for special papers (security). Exitation at 350nm, emission at 540-590nm. Can be added to stock before sizing, to the size press liquor or to the coating slips. Cationic polymers or components (alum) precipitate the marker-pigments, therefore it is used in combination with anionic or non-ionic binders and co-binders like CMC, starch or PVOH.
POLYGONAL RL-KP3 NEW	Papermaking applications: water soluble cationic dispersant polymer used as strength-additive, flocculant, retention-aid and for stick-control. Paper finishing applications: water soluble cationic dispersant polymer with high conductivity, used for cationic fixation of inkjet inks (inkjet-receptive-layers), as cationic antistatic agent and as polymeric wetting agent for water-based lacquers, paper and film-coatings.
PAPER FINISHING/COATING	
POLYGONAL RL-K6	Watersoluble cationic fixing agent as additive for inkjet-receptive-layers and coatings. Forms a complex with the dye and enables its adhesion to the receptive layer of papers and films.
DYNOADD P-SERIE	Uniform PMMA particles in various sizes from 6 to 60µm, as scratch protection or structural additives, see below: https://www.polygon.ch/wp-content/uploads/2023/10/PMMA_matting_and_structural_additives.pdf
IQC-PIGMENTS	High performance organic pigments, see below: https://www.polygon.ch/wp-content/uploads/2023/10/Organic_Pigments_Coatings.pdf