



# PRODUCT RANGE



Manufacturing chemical products for Paper



# Summary

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# PULP PRODUCTION

**MECHANICAL PULP**  
**GROUND WOOD**  
**CHEMICAL PULP**

| <i>Functional property</i>     | <i>Product Code</i> | <i>Commercial name</i> | <i>Product features</i>                                                                                                     |
|--------------------------------|---------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Chelating agent                | 73950               | Actiron® DP 950        | Low environmental impact chelating agent with high performance for chelating heavy metals. Replaces DTPA.                   |
|                                | 16319               | Actiron® EP 319        | Low environmental impact chelating agent with high performance for chelating heavy metals. Replaces EDTA.                   |
| Hydrogen peroxide stabiliser   | 11398               | Synthro®-sparse NS     | Stabilisation of hydrogen peroxide in the bleaching liquor, allows silicate replacement without brightness loss.            |
|                                | 16313               | Actiron® SFB 313       | DTPA free stabilizing agent for hydrogen peroxide bleaching without silicate.                                               |
| Deposit inhibitor              | 12451               | Synthron® 12451        | Inhibitor for mineral scale problems, such as calcium oxalate and calcium carbonate.                                        |
| Cleaning chemical              | 73948               | Synthro®-sparse BaDS   | Boil out chemical for mineral deposits (calcium oxalate, barium sulphate).                                                  |
| Brightness reversion inhibitor | 17538               | Actiron® NB STAB       | Oxidative brightness reversion inhibitor for mechanical pulps.                                                              |
| Taste and odour prevention     | 73950               | Actiron® DP 950        | BfR approved chelating agent that inhibits catalysed degradation of wood extracts responsible for taste and odour problems. |
| Anti pitch product             | 12813               | Synthro®-sparse 12813  | Pitch dispersant to avoid problems of resin deposits in pulp production units.                                              |

## DE-INKED PULP

| <b>Functional property</b>   | <b>Product code</b> | <b>Commercial name</b> | <b>Product features</b>                                                                                                       |
|------------------------------|---------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Chelating agent              | 73950               | Actiron® DP 950        | Low environmental impact chelating agent that allows brightness gains when bleaching de-inked pulp to high brightness levels. |
| Hydrogen peroxide stabiliser | 11398               | Synthro®-spere NS      | Stabilisation of hydrogen peroxide in the bleaching liquor, allows silicate replacement without brightness loss.              |
| Deposit inhibitor            | 12451               | Synthron® 12451        | Calcium carbonate scale inhibitor for use in de-inking plants.                                                                |

# WET END

| <b>Functional property</b> | <b>Product code</b> | <b>Commercial name</b> | <b>Products features</b>                                                                                                           |
|----------------------------|---------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Dye stuff fixing agent     | 24563               | Synthro®-fix WF        | Improves dye yield in highly coloured paper. Low colour in white waters and improved bleeding resistance.                          |
|                            | 15335               | Synthro®-fix FF 335    | Highly effective formaldehyde free fixing agent with little effect on the shade.                                                   |
| Wire and felt treatments   |                     | Synthro®-sperse WT     | Products for wire conditioning to reduce deposit related problems.                                                                 |
| Softener                   | 11851               | Prox®-amine CE 9122 AI | Highly efficient softener for tissue application, even tissue manufactured from recycled furnish.                                  |
| Anionic trash fixing agent | 24563               | Synthro®-fix WF        | Highly cationic fixing agent particularly efficient for cationic demand control and treatment of coated broke.                     |
|                            | 24776               | Prox® NC 776 L         | Cationic fixing agent for stickies treatment and cationic demand control.                                                          |
| Pitch dispersant           | 12711               | Surfaron® A1530 N100   | A powder form dispersant that disperses pitch and resin to prevent it depositing on surfaces in the paper making process.          |
| Stickies treatment         | 13445               | Synthro®-sperse 13445  | Hydrophobic polymer for the treatment of stickies by passivation. Often used with a cationic fixing agent such as Synthro®-fix WF. |

# SIZE PRESS

| <i>Functional property</i> | <i>Product code</i> | <i>Commercial name</i> | <i>Products features</i>                                                                                                                                |
|----------------------------|---------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flame proof agent          | 14902               | Synthro®-nyl NSP 1916S | Efficient at low dosage levels, low effect on mechanical properties. Allows to manufacture paper with M1 standard.                                      |
|                            | 14908               | Synthro®-nyl SNP 1813S | Excellent penetration in the paper sheet for high speed production of M1 standard flame proof paper.                                                    |
| Water barrier              | 13491               | Synthro®-pel WA 491    | Water barrier agent approved for use in food contact paper and board grades.                                                                            |
|                            | 13152               | Synthro®-pel PAL       | Excellent water proofing effect for paper and non woven qualities.                                                                                      |
| Formaldehyde absorption    | 15263               | Synthro®-stab TF       | Formaldehyde scavenger, reduces formaldehyde odour and emissions.                                                                                       |
| Slip easy                  | 13445               | Prox-®amine PE 40      | Gives slight slip properties to paper when used as a surface treatment. Avoids blocking and sticking in latex rich impregnation and surface treatments. |
| Insolubilising agent       | 22238               | Prox® DLF double conc. | Improves water resistance of natural binders, especially starch. Efficient at low dosage levels.                                                        |
|                            | 29910               | Prox® R910             | Speciality PU resin, excellent crosslinker for PVA. Applications in thermal paper, amongst others.                                                      |

# COATING

| <i>Functional property</i>           | <i>Product code</i> | <i>Commercial name</i> | <i>Products features</i>                                                                                                           |
|--------------------------------------|---------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Thickener and water retention agents | 24714               | Modarez® WR            | Thickener and water retention agent with moderate thickening action.                                                               |
|                                      | 25557               | Modarez® TPC           | New generation thickener and water retention agent, with high water retention properties.                                          |
| Dispersent                           | 24565               | Prox® A11              | Pigment dispersent used to manufacture pigment slurries or as an addition in the coating colour to help deflocculate the pigments. |
| De airating and anti-foam            | 14645               | Moussex® 7118GL        | Highly efficient de-airating product for coating colours.                                                                          |
| Flow agent                           | 25365               | Modarez® FA 365        | Novel additive to improve surface properties (gloss, defects and streaks) that modifies the coating colour rheology.               |
| Water resistance                     | 13491               | Synthro®-pel WA 491    | Can replace some of the SBR binder to improve the water resistance of the coating (better COBB).                                   |
| Cross linker                         | 15473               | Prox® M3M              | Melamine based crosslinker for coating colours.                                                                                    |

## SPECIALITY BINDERS

| <i>Functional property</i> | <i>Product code</i> | <i>Commercial name</i> | <i>Product features</i>                                                                      |
|----------------------------|---------------------|------------------------|----------------------------------------------------------------------------------------------|
| Cationic binder            | 24568               | Prox® AM 219R          | Special latex for cationic coatings (ink jet applications for example).                      |
|                            | 24668               | Prox® AM 270R          | As for Prox AM 219R but with a higher Tg.                                                    |
| Special binders            |                     | Prox® AM               | A range of acrylic binders with specific properties (rigidity, sealing, barrier properties). |