



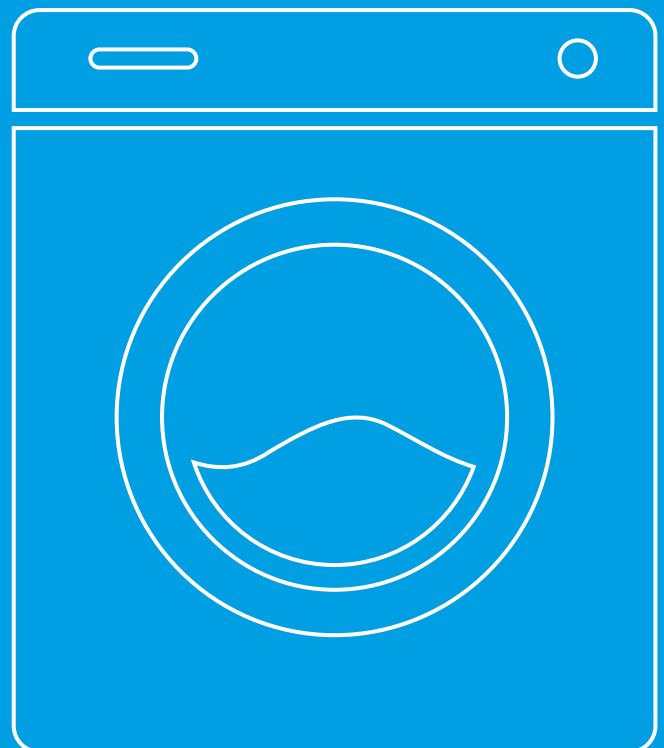
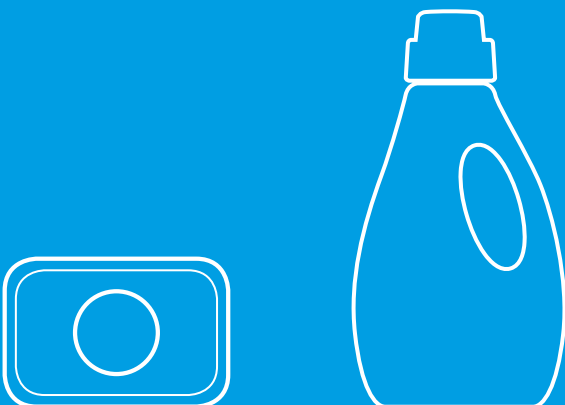
Better chemistry – achieving more.

WeylClean® MnTACN / FDO X / FDO XP

Ultimate stain removal for automatic dishwashing

WeylClean® MnTACN, FDO X and FDO XP are part of a range of highly efficient bleach catalysts for automatic dishwashing (ADW) applications with a special focus on tea stain removal. In combination with persalts (e.g. sodium percarbonate) or H_2O_2 they boost oxidation processes during the dish wash cycle at temperatures below 60 °C.

WeylClean® catalysts are available as pure WeylClean® MnTACN powder, as granulates with the bleach activator TAED for easier handling and additional hygiene (WeylClean® FDO X), or coated for extra robustness in final formulations (WeylClean® FDO XP). Being catalysts, they are used at very low concentrations and save valuable formulation space.

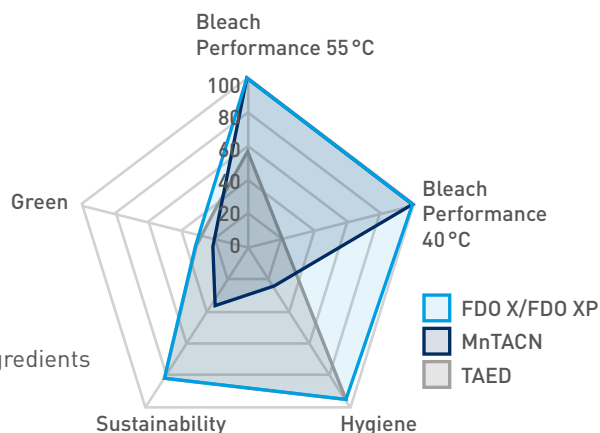


WeylClean® MnTACN / FDO X / FDO XP

Ultimate stain removal for automatic dishwashing

Benefits

- Superior tea stain removal at 40 to 60 °C in comparison to TAED (verified by test institutes)
- Provides hygienically clean dishes (WeylClean® FDO X and FDO XP)
- Highly effective in phosphate-free formulations
- Highly compatible with enzymes due to mimicking the active center of natural occurring manganese-containing enzymes
- Supports amylase in starch degradation processes
- Robust in alkaline formulations due to compatibility with most ADW ingredients



Product Description

- Optimum pH range of washing liquor from 10.2 to 10.5

| | WeylClean® MnTACN | WeylClean® FDO X | WeylClean® FDO XP |
|---|-----------------------------------|---------------------------------|--|
| Type | Catalyst powder | Activator & catalyst co-granule | Coated activator & catalyst co-granule |
| Appearance | Orange to red free-flowing powder | Orange to pink granules | Orange to pink granules |
| Active content | | | |
| Catalyst (%) | Min. 98 | 1.5 – 2.3 | 1.4 – 2.4 |
| TAED (%) | - | 72 – 78 | 69 – 74 |
| Binder | | | |
| Polycarboxylate (%) | - | 21 – 25 | 20 – 24 |
| Particle size (µm) | < 50 | 200 – 1600 | 1000 – 1600 |
| Bulk density (g/l) | 500 – 800 | 550 – 750 | 550 – 750 |
| pH | 6 – 8 | 4.5 – 6.5 | 4.5 – 6.5 |
| Recommended usage level (%) | 0.02 – 0.04 | 1 – 2 | 1 – 2 |
| Recommended dosage of catalyst per wash (mg/20g dose) | 6 | 300 | 300 |

Application Areas

| PRODUCT | HOME CARE | | | | FABRIC CARE | | | | | I & I | | | | |
|----------------------|--------------------|-----------------------|---------|---------|-----------------------|--------------------|-------------------|-------------------|--------------------|---------------------------------------|-----------------|--------------------|-----------------------|-------------|
| | Manual Dishwashing | Automatic Dishwashing | | | Hard Surface Cleaning | Laundry Detergents | | | | Laundry Aids – Spot and Stain Remover | Fabric Softener | Industrial Cleaner | Institutional Cleaner | Warewashing |
| | | Liquids | Powders | Tablets | | Powder Detergents | Detergent Tablets | Liquid Detergents | Special Detergents | | | | | |
| WeylClean® Catalysts | | | | | | | | | | | | | | |
| WeylClean® MnTACN | | • | • | | | | | | | | | | | • |
| WeylClean® FDO X | | • | • | | | | | | | | | | | • |
| WeylClean® FDO XP | | • | • | | | | | | | | | | | • |

WeylClean® MnTACN, FDO X and FDO XP should not be used in laundry applications, as fabric damage cannot be ruled out.

This brochure does not constitute any representation or warranty and may not be treated as an offer to supply Product. We would be pleased to provide you a binding offer to supply Product meeting your individual needs and requirements.



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 09/18