

Technical Bulletin

Multizyme-Plus

Low Temperature Sanitising Laundry Detergent Powder

Product Description:

MULTIZYME-PLUS is a bulk, new age low temperature sanitising laundry powder, containing highly active, yet low sudsing detergents for top and front-loading laundry machines. MULTIZYME-PLUS is an effective detergent sanitiser in cold water or hot up to 55°C (for maximum Enzyme effect). MULTIZYME-PLUS has a range of enzymes specifically targeted at problem stains and soils.

1. Sanitising Action: Proven sanitising action to BS EN 1276:1997.
2. Bio Degradable: Employs fully biodegradable surfactants, non-polluting and therefore ecologically safe.
3. Cold water: Added oxygen release activator to rapidly release Oxygen bleach at low temperatures. This provides effective sanitising and better stain removal for brighter whites.
4. Super Concentrated: The highly economical aspect of using Multizyme-plus is obvious when only 1/3 of the volume suggested for fluffed or sprayed dried powders is required to do the same application.
5. Multi-Enzyme System: A specially selected synergistic blend of Enzymes specifically to assist in the removal of bloods, grass, food and lipstick stains.
6. Stops Greying: The soil suspending agents, together with selected optical brighteners, prevent deposition of soil in the wash cycle on both natural and synthetic fibres.
7. Phosphate: Multizyme-plus complies with industry standards for Low Phosphorous levels.

Application:

For routine washes for typical (average) machines in terms of weight of load:

Front Loading:

| | |
|---------------|-----------------------------|
| Light Soils: | 4 grams per Kg of dry load |
| Medium Soils: | 6 grams per Kg of dry load |
| Heavy Soils | 10 grams per Kg of dry load |

Top Loading:

| | |
|---------------|-----------------------------|
| Light Soils: | 18 grams per Kg of dry load |
| Medium Soils: | 22 grams per Kg of dry load |
| Heavy Soils | 26 grams per Kg of dry load |

Laundry Pre Soak:

Use 10 grams per litre or 1 scoop (100g) in 10 Litres of warm to hot water and soak for at least 30 minutes.

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Sanitising Wash:

For optimum oxygen bleaching and complete sanitising; minimum dosage rate required is 10 grams per L wash Liquor at minimum 40°C, Extrapolated to load in Kg:

Front Loading:

Sanitising: 22 grams per Kg of dry load

Top Loading:

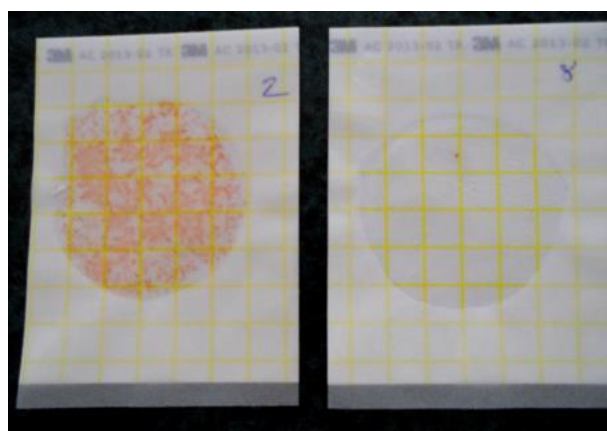
Sanitising: 75 grams per Kg of dry load

Industrial and Commercial Laundries:

Please contact your Castle representative for optimum application rates.

Proven Sanitising performance:

Example of reduction in microbiological activity, 3M Petrifilms taken prior and post 40°C contaminated load wash (Nursing Home):



Film 2 (prior to wash) shows $>1 \times 10^6$ CFU/cm² (TNC, Too Numerous to Count) and Film 8 Post cold wash with MULTIZYME PLUS <1 CFU/cm² Results in excess of equivalent thermal disinfection requirements of Australian Laundry Practice Standard. AS/NZS: 4146: 2000.

Independent Laboratory Testing to BS EN 1276:1997 report / data available.

MULTIZYME-PLUS is available in cartons of 3 x 4Kg and 25Kg bags.

PHOSPHATE STATEMENT-NP

The compliance criteria for a Phosphate detergent according to ACCORD is 'NP' contains no phosphorus if the level of phosphorus measured is $\leq 0.5\%$ in usage.

Fitness For Purpose:

- 1) An FFP - Fit For Purpose Statement is available for this product when used in an export meat facility.

SHELF LIFE: As a quality assured manufacturer, Castle Chemicals has a stringent Quality assurance programme. As part of this regime, the label on this product shows a batch number and date of manufacture. This product has a shelf life of 24 months from the label printed date of manufacture. This information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Castle Chemicals assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of material.

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