



Paramount Minerals and Chemicals Limited

(An ISO 9001- 2000 Certified Company)

Parawhite DMS U Powder

Chemical Description	Derivative of Bis (Trianzinylamino) stilbene disulphonic acid (Disodium salt)
Ionicity	Anionic
Affinity	High
Form supplied	Fine pourable granules
Colour	White
Bulk Density	Approx 450 g/l
Absorption maximum in water at 20 deg C	W=270/350 nm
E11 Extinction in water at 20 deg C	560 +/-20
Active ingredient content	Approx 97% (calculated as anhydrous disulphonic acid)
Whitening effect	<p>Very brilliant white with a slightly bluish cast in cellulose fibres and blended cellulose and synthetic fibres.</p> <p>Does not change the shade of white wash load oven even if high concentration are used.</p> <p>High build-up.</p>
Optimum washing temperatures	50-95 deg C.
Storage stability	2 years on storing in cool dry and ventilated area.

Stability and fastness properties

Parawhite DMS brands are stable to alkali under usual household and industrial washing conditions. These fluoresecent whitening agents (FWA'S) are partly destroyed by sodium hypochlorite. However, once fixed on the fibre they are stable to after treatment with sodium hypochlorite under the usual conditions.

The dry and wet light fastness of Parawhite DMS brands corresponds to the fastness values of commonly used FWA'S based on bis(Triazinylamine) stilbene disulphonic acid.

Technical notes on application

Strength ratio	100 parts Parawhite DMS U = 130 parts of Parawhite DMS Conc
Application quantities	0.02-0.50% Parawhite DMS U and Parawhite DMS Conc up to 1.0% (Calculated on detergent weight in all cases)
Dispersibility in water	Very good
Fields of application	<p>Parawhite DMS brands can be used in all detergents (powders, pastes and light and heavy duty liquids), soap powders and soap bars for laundering textiles.</p> <p>Parawhite DMS brands can be used in production of powder detergents by all usual processes e.g pressure jet spraying, spray mixing and dry mixing.</p>
Improvement in the appearance of powder detergents	<p>Parawhite DMS brands considerable improve the appearance of powder detergents.</p> <p>Particularly good results are obtained in pressure jet spraying when Parawhite DMS brands are added to the slurry as the last components before the phosphate is added.</p>
Combination possibilities for all temperature detergents	For washing powders which are required to provide very good whitening even at cold washing temperatures we recommend a combination of Parawhite DMS with Parawhite RKH brands