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DE-WAT

 **Readily Biodegradable**

 **Phosphate Free**








Polo De-Wat is a citrus-based dewatering product designed for applications where coal, ore and paper are dried by mechanical or run-off systems.

Polo De-Wat causes water used for wetting and washing coal and other minerals to be readily released by lowering its surface tension, and because of lessened adhesion and thus easier passage of divided solid particles. This phenomenon reduces the amount of water present in the final product, which is in many cases a critical aspect. Where conventional mechanical methods or heating are used to remove excess water the addition of *Polo De-Wat* has proved a cost effective alternative.

Another advantage of *Polo De-Wat* is the reduction of acid formation in water used for wetting coal. *Polo De-Wat* removes the wax layer formed on coal particles by bacteria that form acid by digestion of pyrite. The absence of this protective layer causes the bacteria to be destroyed by the acid they produce, preventing further acidification and raising the pH of the system to more acceptable levels. This is a tremendous advantage in terms of the environmental impact of Coal Handling Plants on dams, groundwater and rivers where acidity and salt formation are a serious problem.

Furthermore, the detergent action of *Polo De-Wat* will help reduce screen blockages by preventing fines build-up and caking, and promote cleaning of the plant area.

Advantages

-  Reduces moisture
-  Lowers product transportation costs
-  Extremely cost effective
-  Readily biodegradable
-  Rapid dispersion in water without agitation
-  pH neutral
-  Pleasant natural orange fragrance

Effect of Polo De-Wat on surface tension of water:

	Typical mine water	Distilled water	Polo De-Wat to water				
			1:2000	1:4000	1:6000	1:8000	1:10000
Surface tension, mN/m	72.5	70	33.4	34.7	36.1	37.4	39.3