



Technical Data Sheet

Reviewed: 1 August 2026

Aquaperl

GRADE	AQUAPERL	AQUAPERL+
Flow Rate (Sec)	25~35	15~25
Bulk Density (kg/m3)	110~145	110~140
Wet Cake Density (kg/m3)	200~280	180~250
Pereability (Darcy)	1.46~2.04	2.04~3.41
Floats <%	<6	< 8
Average Particle Size (um)	78	85
Mediun Particle Size (um)	55	68
90% of particles are less than (um)	162	166

CHEMICAL ANALYSIS		PHYSICAL PROPERTIES	
Amorphous Silica	74.0%	Specific Gravity (g/ml)	0.055-0.30
Aluminium Oxide	14.0%	Colour	Off white
Ferric Oxide	1.0%	Floats	As Noted
Calcium Oxide	1.3%	Fusion Point (Deg.C)	1260~1340
Magnesium Oxide	0.3%	Softening Point (Deg.C)	871~1093
Sodium Oxide	3.0%		
Potassium Oxide	4.0%		
Titanium Oxide	0.1%		
Heavy Metals	Trace		
Sulphate	Trace		
Moisture Content	0.3%		
Organic Content	<0.1%		
Thermal Conductivity	0.0361 @ 0c		

TEST METHODS

Chemicals by XRF
Moisture by drying 110 Deg.c for 1.5hrs
Floats by PI 300-77
Organic Content - Weight of matter soluble in carbon tetrachloride
Specific Gravity by water immersion
PSD by sieve on BS410 sieves / Laser diffraction - Particle size analyzer
Loose Bulk Density by PI200-77
Thermal Conductivity per ASTM C518-98
Compacted Density as per PI 201-77

The figures quoted in this data sheet are, to the best of our knowledge, representative of the product. Natural products do vary, so these figures are approximations for guidance only. As conditions of use are beyond our control, no liability is accepted for any loss or damage sustained arising from the use of this information or any products. Because of on-going developments, the product parameters may be changed without notice.

