

0.45 E.S. Filter Sand

Description

The Sand shall be clean, washed and hydrosized to remove the majority of fines, silts and clay particles.

The sand will be from a natural uncrushed source with sub-angular to sub-rounded grains free of any friable or agglomerated grains.

The sand will be resistant to degradation during normal handling, placing and commissioning works.

Mechanical Analysis

Sieve Size	% Passing	Typical Grading
4	100	100
2	95-100	95
1	80-100	85
0.5	10-30	20
0.425	0-5	2
0.355	0-2	0.5
0.25	0-1	0.2
0.15	0-0.5	0.1

Silica Content	>90%
Effective Size	D 10 = 0.45mm (+/- 5%)
Uniformity Co-efficient	<2.00
Bulk Density Moist (Loose)	1500 kg /m ³
Bulk Density Moist (Compacted)	1650 kg / m ³
Moisture Content	4 - 8% w/w
Silt/Clay Content	< 0.5% w/w

Petrographic Analysis

		%
Quartz	SiO₂	50
Quartzite		18
sandstone		8
Chert		19
Schist		2
Weathered granite		2
limestone		2
ironstone		<1

Irwin's Filter Sands and Support Gravels Conform to B.S. EN 12904 Table 1 Type 2/3 Limits.