

0.18 E.S. Filter Sand

Description 0.15 – 0.50mm filter sand. Main use = polishing filters.

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
1	95-100	98
0.85	90-100	97
0.50	80-100	89
0.30	40-80	60
0.25	10-50	35
0.18	0-10	2
0.125	0-1	0.2
0.063	0-0.5	0.1

Silica Content	>80%
Effective Size	D 10 = 0.18mm (+/- 5%)
Uniformity Co-efficient	< Or= 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

Chemical Analysis

		%
Silica	SiO₂	86.95
Alumina	Al₂O₃	5.27
Titania	TiO₂	0.194
Iron	FE₂O₃	1.383
Magnesium	MgO	0.65
Calcium	CaO	0.95
Sodium	Na₂O	0.79
Potassium	K₂O	2.04
Manganese	Mn₃O₄	0.0236
Chromium	Cr₂O₃	0.0035
Loss on Ignition	L on I	1.68

IRWINS FILTER SANDS AND SUPPORT GRAVELS CONFORM TO B.S. EN 12904 TABLE 1 TYPE 2/3 LIMITS

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