



# Soil Property Testing Ltd.

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## Specification for Highway Works Clause 803 – Granular Sub-base material TYPE 1

### TESTING REQUIRED FOR COMPLIANCE TO EUROPEAN STANDARDS (BS EN 13285)

Grading designation 0/31.5G<sub>P</sub>, Max fines UF<sub>9</sub>, Oversize OC<sub>75</sub>. G<sub>P</sub> (SHW table 8/1)

	Test	Method	Amount required	Compliance	Cost
1	Particle Size Distribution	BS EN 933-1	40kg	Table 8/5	£56.00
2	Determination of Plastic Limit including wet sieve prep passing 0.425mm and Liquid Limit	BS1377:Part2: 1990	20 grams passing 0.425mm	Non Plastic	£24.25
3	Resistance to Fragmentation – Los Angeles Test	BS EN 1097-2	10kg – passing 14mm retained 10mm	LA <sub>50</sub>	£99.00
4	Resistance to Freezing and Thawing – Magnesium Sulphate Soundness Test	BS EN 1367-2	2kg – passing 14mm retained 10mm	MS <sub>35</sub>	£130.00
5	Particle Density Water Absorption Test - up to 5 Fractions:	BS EN 1097-6	10kg	WA <sub>24</sub> NR supplier to state	£47.25 per fraction
6	Testing for Constituent Materials in Recycled Coarse Aggregate and Recycled Concrete Aggregate	BSEN 933-11	20kg	Table 8/3	£130.00
7	Resistance to Wear -Micro Deval Test	BS EN 1097-1	2.5kg – passing 14mm retained 10mm	M <sub>DE</sub> NR supplier to state	£150.00
8	Water Soluble Sulphate (WS)	BS EN 1744-1	2kg	<300 mg of sulphate (as SO <sub>4</sub> ) per litre	POA
9	Total Sulphur (TS)	BS EN 1744-1	2 -3kg	<1% for aggregates other than air cooled blast furnace slag or 2% for air cooled blast furnace slag	POA
10	Sulphide Content	BS EN 1744-1	2-3kg	<0.06%	POA
11	Acid Soluble Sulphate	BS EN 1744-1	2-3kg		POA
12	Frost Heave (If material within 450mm of final road surface)	BS812: Part 124 + SHW Amendment	120 Kg	Less than 15mm	POA
13	Moisture/Density Relationship Vibrating Hammer compaction	BSEN13286-4	40 kg	Free from both	£115.50
14	pH Value		2-3kg		£7.00
15	Water Content		From PSD		£6.00
16	Percentage Crushed/Broken Particles	BSEN 933-5	40kg		POA