



CARDIGAN SAND AND GRAVEL CO LTD
CNWC Y SAESON SAND PIT PENPARC
CARDIGAN CEREDIGION WALES SA43 1RB

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| BS EN 13242: 2013 AGGREGATES FOR UNBOUND AND HYDRAULICALLY BOUND MATERIALS | | | DECLARED GRADING | |
|---|--|--------------------------------------|---|-------------------------|
| | | | 0/0.250 FINE AGGREGATE FP | |
| | | | DESCRIBED AS CUBICARE or BLINDING SAND or CATTLE BEDDING SAND | |
| PROPERTIES | REPORTING METHOD | VALUE | Sieve size | % Passing |
| Particle shape (FI) | Declared value | NPD | | |
| Particle shape | Informative | Subrounded | .500 | 100 |
| | Informative | Medium sphericity | .250 | 92 ± 7.5 |
| | | GT _F 25 G _F 85 | .125 | 45 ± 25 |
| Particle size d/D | Designation | 0/0.250 | 0.063 | f ₁₀ <10 |
| Particle density (Mg/m ³) | Declared value | Apparent 2.70 | | |
| | | Oven Dry 2.70 | 0/0.250 FINE AGGREGATE FP | |
| | | Saturated Surface Dry 2.70 | DESCRIBED AS MANEGE SAND or CHILDRENS PLAYPIT SAND | |
| Cleanliness | | | Sieve size | % Passing |
| Shell content (SC) | Declared value | Category SC10 | .500 | 100 |
| Fines quality | Designation | Coarseness/fineness FP | .250 | 92 ± 7.5 |
| Fines quality | Designation | as per declared grading | .125 | 35 ± 25 |
| Fines quality | Threshold value (%) | as per declared grading | 0.063 | f ₃ <03 |
| Fines quality | Category (MB,SE) | NPD | | |
| Composition/content | | | | |
| Chlorides (% C) | Declared value | <0.01% | BS EN 1774-1 1998 Cl.7 | |
| Acid soluble sulphates (AS) | Category | AS _{0.2} | BS EN 1774-1 1998 Cl.12 | |
| Total sulphur (%S) | Pass/fail threshold | NPD | BS EN 1744-1 1998 Cl.11 | |
| Carbonate content (%CO) | Declared value | <1.0 | | |
| Constituents which alter the rate of setting and the hardening of hydraulically bound mixture | Pass/fail threshold | NPD | BSEN 17744-1 1998 15.3 | |
| Volume stability (%WS) | Pass/fail threshold | NPD | | |
| Water absorption (WA)% | Declared value | WA ₂₄ 0.9% | BS EN 1096:2000 | |
| Emission of radioactivity | Declared value | NPD | as requested | |
| Release of heavy metals | Threshold values valid in the place of use | NPD | | |
| Release of polyaromatic carbons | | NPD | 0/4 FINE AGGREGATE FP | |
| | | | DESCRIBED AS CUBICARE PLUS | |
| | | | Sieve size | % Passing |
| Release of other dangerous substances | | NPD | 8.000 | 100% |
| | | | 6.300 | 98-100 |
| | | | 4.000 | 85-99 ± 7.5 |
| | | | 2.000 | 49-99 ± 25 |
| Durability against freeze-thaw (F or MS) | Declared value | NPD | 1.000 | 85-99 |
| | | | 0.063 | f ₃₀ <30 ± 5 |
| Durability against alkali-silica reactivity | Declared value | NPD | as requested | |

Declaration of Conformity: Cardigan Sand and Gravel Co Ltd confirms that the aggregates described in these certificates comply with the requirements of EN 13242

Authorised by MJ Mc Gee Managing Director
Valid from 1st May 2012 to Currently Valid
Date of Certificate issue 24th May 2013