



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

**12**

<b>BS EN 13242: 2013 AGGREGATES FOR UNBOUND AND HYDRAULICALLY BOUND MATERIALS</b>			<b>DECLARED GRADING</b>	
			<b>0/0.250 FINE AGGREGATE FP</b>	
			DESCRIBED AS CUBICARE or BLINDING SAND or CATTLE BEDDING SAND	
<b>PROPERTIES</b>	<b>REPORTING METHOD</b>	<b>VALUE</b>		
Particle shape (FI)	Declared value	NPD		
Particle shape	Informative	Subrounded	<b>Sieve size</b>	<b>% Passing</b>
		Medium sphericity	.500	100
		GT <sub>F</sub> 25 G <sub>F</sub> 85	.250	92 ± 7.5
Particle size d/D	Designation	0/0.250	.125	45 ± 25
Particle density (Mg/m <sup>3</sup> )	Declared value	Apparent 2.70	0.063	f <sub>10</sub> <10
		Oven Dry 2.70		
		Saturated Surface Dry 2.70	<b>0/0.250 FINE AGGREGATE FP</b>	
<b>Cleanliness</b>			DESCRIBED AS MANEGE SAND or CHILDRENS PLAYPIT SAND	
			<b>Sieve size</b>	<b>% Passing</b>
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 <sub>3</sub> <03
Fines quality	Category (MB,SE)	NPD		
<b>Composition/content</b>				
Chlorides (% C)	Declared value	<0.01%	<b>BS EN 1774-1 1998 Cl.7</b>	
Acid soluble sulphates (AS)	Category	AS <sub>0.2</sub>	<b>BS EN 1774-1 1998 Cl.12</b>	
Total sulphur (%S)	Pass/fail threshold	NPD	<b>BS EN 1744-1 1998 Cl.11</b>	
<b>Carbonate content (%CO )</b>	Declared value	<1.0		
Constituents which alter the rate of setting and the hardening of hydraulically bound mixture	Pass/fail threshold	NPD	<b>BSEN 17744-1 1998 15.3</b>	
<b>Volume stability (%WS)</b>	Pass/fail threshold	NPD		
<b>Water absorption (WA)%</b>	Declared value	WA <sub>24</sub> 0.9%	<b>BS EN 1096:2000</b>	
<b>Emission of radioactivity</b>	Declared value	NPD	as requested	
<b>Release of heavy metals</b>	Threshold values valid in the place of use	NPD		
<b>Release of polyaromatic carbons</b>		NPD	<b>0/4 FINE AGGREGATE FP</b>	
		NPD	DESCRIBED AS CUBICARE PLUS	
<b>Release of other dangerous substances</b>		NPD	<b>Sieve size</b>	<b>% Passing</b>
			8.000	100%
			6.300	98-100
			4.000	85-99 ± 7.5
			2.000	49-99 ± 25
<b>Durability against freeze-thaw (F or MS)</b>	Declared value	NPD	1.000	85-99
			0.063	f <sub>30</sub> <30 ± 5
<b>Durability against alkali-silica reactivity</b>	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 1<sup>st</sup> May 2012 to Currently Valid**  
**Date of Certificate issue 24<sup>th</sup> May 2013**