



## Dove Holes Quarry – WR440 Sand

**Location: The Old Brickyard Dove Holes Quarry, Dale Road, Dove Holes, SK17 8BH**

| Typical Aggregate Properties                |            |                   |                                   | XRF chemical analysis (%)   |                                   |                 |
|---|------------|-------------------|-----------------------------------|---|-----------------------------------|-----------------|
| Particle Density                            |            |                   |                                   | Iron oxide  | as Fe <sub>2</sub> O <sub>3</sub> | <b>0.16</b>     |
| Oven dried                                  | 2.58       | Mg/m <sup>3</sup> | BS EN 1097-6: 2000<br>(clause 9)  | Calcium oxide   | as CaO                            | <b>0.21</b>     |
| Saturated surface dried                     | 2.56       | Mg/m <sup>3</sup> |                                   | Silicon oxide   | as SiO <sub>2</sub>               | <b>96.03</b>    |
| Apparent                                    | 2.60       | Mg/m <sup>3</sup> |                                   |   |                                   |                 |
| Water Absorption                            | 0.2        | %                 |                                   |   |                                   |                 |
| Water soluble Chloride                      | < 0.001    | %                 | BS EN 1744-1: 2009<br>(clause 7)  | Magnesium oxide   | as MgO                            | <b>0.07</b>     |
| Total Sulfur (as S)                         | <0.1       | %                 | BS EN 1744-1: 2009<br>(clause 11) | Aluminium oxide   | as Al <sub>2</sub> O <sub>3</sub> | <b>1.39</b>     |
| Acid soluble Sulfate                        | <0.1       | %                 | BS EN 1744-1: 2009<br>(clause 12) | Phosphorus oxide  | as P <sub>2</sub> O <sub>5</sub>  | <b>&lt;0.01</b> |
| Water soluble Sulfate (as SO <sub>3</sub> ) | <0.01      | %                 | BS EN 1744-1: 2009<br>(clause 10) | Manganese oxide   | as MnO                            | <b>0.02</b>     |
| Bulk density (loose)                        | 1.55       | Mg/m <sup>3</sup> | BS EN 1097-3: 1998                | Sulphur oxide   | as SO <sub>3</sub>                | <b>&lt;0.01</b> |
| Calcium carbonate equivalent                | 1.00       | %                 | BS EN 196-21: 1992                | Titanium oxide  | as TiO <sub>2</sub>               | <b>0.06</b>     |
| pH  | 7.4        |                   | BS 1377-3: 1990<br>(clause 9)     | Potassium oxide   | as K <sub>2</sub> O               | <b>0.78</b>     |
|   |            |                   |                                   | Sodium oxide  | as Na <sub>2</sub> O              | <b>0.06</b>     |
| Lightweight contaminators                   | <0.1       | %                 | BS EN 1744-1: 2009<br>(clause 14) | Loss on ignition  | @ 1000°C                          | <b>0.7</b>      |
| Typical Grading                             |            |                   |                                   | <b>Additional Information:</b><br><br><b>Petrological description:</b><br>Quartzose Sand<br><br><b>Particle shape:</b><br>Angular to well rounded<br><br><b>Surface texture:</b><br>Rough to smooth |                                   |                 |
| Sieve Size                                  | Retained % |                   |                                   |   |                                   |                 |
| 1 mm  | 0.1        |                   |                                   |   |                                   |                 |
| 0.710 mm                                    | 0.4        |                   |                                   |   |                                   |                 |
| 0.500 mm                                    | 2.0        |                   |                                   |   |                                   |                 |
| 0.355 mm                                    | 11.9       |                   |                                   |   |                                   |                 |
| 0.250 mm                                    | 47.3       |                   |                                   |   |                                   |                 |
| 0.212 mm                                    | 18.2       |                   |                                   |   |                                   |                 |
| 0.180mm                                     | 12.8       |                   |                                   |   |                                   |                 |
| 0.150 mm                                    | 5.9        |                   |                                   |   |                                   |                 |
| 0.125 mm                                    | 1.2        |                   |                                   |   |                                   |                 |
| 0.90 mm                                     | 0.2        |                   |                                   |   |                                   |                 |
| 0.63 mm                                     | 0.0        |                   |                                   |   |                                   |                 |
| pan   | 0.0        |                   |                                   |   |                                   |                 |
| AFS   | 50         |                   |                                   |   |                                   |                 |
| AGS   | 286        |                   |                                   |   |                                   |                 |

**Contact details: 01**

Revised January 2020

- Notes:
1. The above data is provided in good faith as a guide to typical values and does not constitute a specification.
  2. The company reserves the right to revise the data at any time.
  3. Individual certification available on request.