

**TDS 40**

**Crushed Glass**

**Technical Data Sheet**

**Commercial Glass Bead**

Trade Name: Beadomac

Original Issue Date: February 2011 (by Mac’Ants)

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**SECTION 1**

**Chemical Analysis**

A range of prime commercial soda lime glass beads, noted for their spherical characteristic and consistent size distribution. Manufactured to BS6088 offering a broad range of standard industrial sizes. The use of glass beads in surface finishing applications imparts a peening/ polished finish to metal components and is also utilised for its reflective ability in road marking and as a flow agent and functional filler in polymer manufacture among a myriad of other applications.

|  |  |  |
| --- | --- | --- |
| **Chemical Analysis** |  |  |
| **Chemical**  **Formula** | **Typical Content %** |
| Silicon Dioxide (amorphous) | SiO2 | 73 |
| Sodium Oxide | Na2O | 15 |
| Calcium Oxide | CaO | 7 |
| Magnesium Oxide | MgO | 4 |
| Aluminium Oxide | Al2O3 | 1 |



**SECTION 2**

**Physical Properties**

|  |  |
| --- | --- |
| Shape | Spherical |
| Colour | Clear/white |
| Specific Gravity | 2.55 g/cc |
| Bulk Density | 1.5 g/cc |
| Hardness | 5 moh |
| Packaging | 25kg paper sacks |

**SECTION 3**

**Particle Size Distribution**

|  |  |  |  |
| --- | --- | --- | --- |
| **Grade** | **Bead dia. microns** | **Bead dia, inches** | **US Standard Mesh** |
| GBBT3 | 840-590 | .0331-.0234 | 20-36 |
| GBBT4 | 590-420 | .0234-.0165 | 30-40 |
| GBBOL21 | 420-250 | .0165-.0098 | 40-60 |
| GBBOL23 | 297-177 | .0117-.0070 | 50-80 |
| GBBOL24 | 250-149 | .0098-.0059 | 60-100 |
| GBBOL25 | 210-105 | .0083-.0041 | 70-140 |
| GBBOL26 | 149-74 | .0059-.0029 | 100-200 |
| GBBOL27 | 105-53 | .0041-.0021 | 140-270 |
| GBBT13 | 88-44 | .0035-.0017 | 170-325 |
| GBBOL30 | 62-30 | .0017 and finer | 270-500 |



**SECTION 4**

**Compliance**

This product is exempt from registration under REACH regulations. See SDS 40 on our web site.

Special Precautions -In use, protection is required to meet threshold limit values for general dusts of 10 mg/m3 (for total inhalable dust) and 5 mg/m3 (respirable dust). The user must establish any hazards present in the surface coatings being removed, which may reduce the occupational exposure standard (O.E.S.).

**SECTION 5**

**Disposal**

The product must be disposed of in accordance with national legislation (See Section 16) and local regulations. The material as supplied is classed as a non-hazardous inert solid waste. Spent abrasive used as a blasting medium must be disposed of under classification 12 01 16 (waste blasting material containing dangerous substances) or 12 01 17 (waste blasting material other than those mentioned in 12 01 16). The waste producer must determine if hazardous substances in the coating being removed are likely to cause the waste to be hazardous.

**SECTION 6**

**Handling and Storage**

Load per pallet should not exceed 1 tonne and the pallets should not be stacked more than two high. Material should be kept dry.

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