

OLIDENSE 0/4

Dense Olivine

Features & Benefits

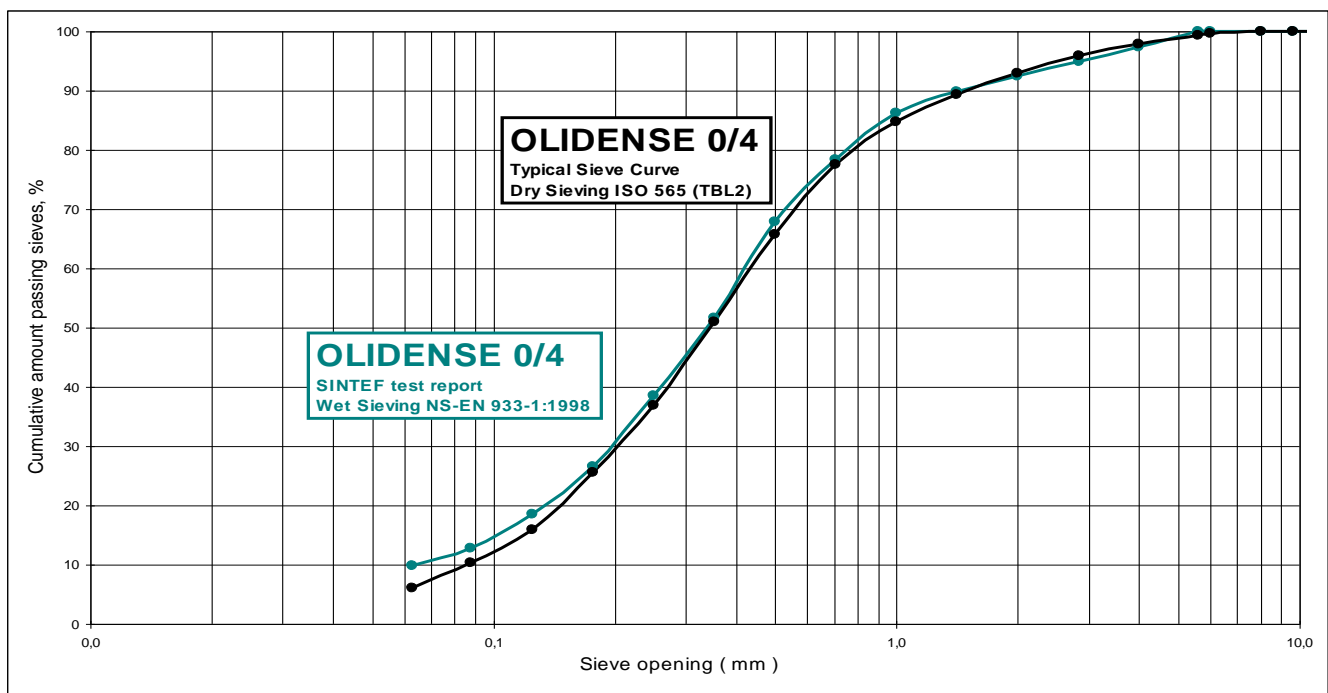
Åheim – Norway

OLIDENSE Olivine 0/4 is produced from olivine, a naturally occurring deep earth mineral composed of a Magnesium-Iron Silicate, $[\text{Mg,Fe}]_2\text{SiO}_4$. With a specific density of 3.22 tonnes per m^3 and a Water Saturated Compacted Density of 2.40 – 2.60 tonnes per m^3 , OLIDENSE Olivine 0/4 may be applied as a ballasting material in the most challenging offshore designs and constructions. In the manufacture of concrete coatings of pipelines, significant reductions in Iron Ore consumption is achieved by substituting ordinary aggregates by OLIDENSE Olivine 0/4. Thus high density concretes are made most profitable by using OLIDENSE Olivine 0/4.

OLIDENSE Olivine 0/4 is certified according to the European standard EN 12620:2002 + A1:2008, valid for aggregates for concrete. All OLIDENSE Olivine products are produced with adherence to ISO 9001, ISO 14001 and ISO 50001; quality, environmental and energy management systems.

Particle Size Distribution and Properties

Mean values. These do not represent a specification.



| OLIDENSE Olivine 0/4 WS Characteristics | Method | Unit | Typical Value |
|---|-------------------|-------------------|---------------|
| Specific Gravity | EN 1097 – 6:2000 | ton/ m^3 | 3.25 |
| Non Compacted Dry Bulk Density | EN 1097 – 3 | ton/ m^3 | 1.80 – 2.00 |
| Compacted Dry Bulk Density | EN 1097 – 3 | ton/ m^3 | 2.00 – 2.20 |
| Water Saturated Non Compacted Density | Offshore Standard | ton/ m^3 | 2.30 – 2.50 |
| Water Saturated Compacted Density | Offshore Standard | ton/ m^3 | 2.40 – 2.60 |
| Volume Weight Non Compacted Dry Bulk | EN 1097-3 | m^3 /ton | 0.50 – 0.56 |
| pH (milled) | | | 8.9 – 9.5 |
| Moisture | | % | Max. 5.0 |
| Hardness | Moh's Scale | | 6.5 – 7.0 |

Chemical Composition

Mean values. These do not represent a specification.

| | | | Olivine 0/4 WS |
|-------------|--------------------------------|-----------------|----------------|
| % by weight | MgO | Magnesium Oxide | 47.0 |
| | SiO ₂ * | Silicon Oxide* | 43.0 |
| | Fe ₂ O ₃ | Iron Oxide | 7.5 |

* Present as silicate, contains < 0.1% free crystalline silica.

Availability

OLIDENSE Olivine 0/4 is available in Bulk from our deposit at Åheim plant. We deliver worldwide. Availability might vary depending on the product requested or the point of destination.

Technical Service

Our skilled technical staff will upon request be able to provide you with additional information concerning the usage and performance of our products.

For Product Information & Customer Service

Tel: + 46 8 40 83 84 22
Email: Customersupport.nordic@sibelco.com

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The technical data presented here is for marketing purposes only and is not contractually binding, the data herein is determined using Sibelco standard test methods. Since the product is based upon a naturally occurring material, we reserve the right to change this data when necessary. Safety information accompanying this product is available in the form of an SDS. All sales are undertaken strictly in accordance with our "General Conditions of Sale", available upon request, or by a written sales agreement duly signed by us.

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