DRI-VIBE® LGS HTC

DRI-VIBE® LGS HTC is a silica-based refractory designed for lining coreless induction furnaces. It is used for the low cost melting of gray, ductile and malleable iron in all types of iron foundry operations, ranging from periodic cold melting to continuous holding applications. It is also suitable for low temperature steel melting. This product has a reduced sintering depth in comparison to its sister product, standard DRI-VIBE® LGS.

High density, trouble-free linings are readily achieved with DRI-VIBE® LGS HTC because of its closely controlled grain size distribution, including large grain silica, and bond content. This permits successful lining installations employing any one of several techniques utilizing vibrators, mechanical impacting tools or hand ramming.

DRI-VIBE® LGS HTC is shipped as a dry granular mix with the bond preblended. It is ready for immediate use. Detailed installation and sintering procedures for DRI-VIBE® LGS are given in Allied Mineral Products’ Procedure Bulletins CL-1, CL-2, CL-3, CL-4, CL-13, CL-17, CL-18, CL-34, CL-44, CL-52, CL-61 and CL-70. DRI-VIBE® LGS HTC and DRI-VIBE® LGS are suitable for zoning in a coreless induction furnace. Contact your local Allied representative for a copy of the procedure bulletin appropriate for your application.

Typical Chemical Analysis
(Major Components without bond)

<table>
<thead>
<tr>
<th>Material Required</th>
<th>2.21 g/cm³ (138 lb./ft.³)</th>
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<tbody>
<tr>
<td>Material Required</td>
<td>Grain Size</td>
</tr>
<tr>
<td>SiO₂</td>
<td>99.0%</td>
</tr>
<tr>
<td>Al₂O₃</td>
<td>0.6%</td>
</tr>
<tr>
<td>Fe₂O₃</td>
<td>0.1%</td>
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Packaged in 25 kg (55 lb.) multi-wall paper bags. Also available in bulk packaging. Storage beyond 24 months is not recommended.

Typical Sintering Data

- First Hold Temperature: 1100°C (2000°F), for minimum 2 hours
- Final Hold Temperature: 1600°C (2900°F), for minimum 1 hour
- Sinter Rate: 110°C (200°F)/Hour
- Form Type: Consumable

Allied Mineral Products, Inc. supplies an entire line of monolithic refractories for the metals industry. For more information or a complete evaluation of your refractory requirements, please contact your local Allied representative.

Warning: Contains crystalline silica and boron oxide or boric acid. The International Agency for Research on Cancer (IARC) has classified crystalline silica inhaled in the form of quartz or cristobalite carcinogenic to humans. Do not breathe dust as it may cause delayed lung injury, silicosis. Wear NIOSH approved respirator during installation, removal, and disposal of product to prevent inhalation of dust. Refer to Material Safety Data Sheet. In case of eye contact, flush immediately and repeatedly with water and consult a physician. For safest use and optimum performance, proper practices must be followed.

DVLGSHTC
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