BS SU CCA
Chill-Cast Ductile Iron Setting-Up Disc

<table>
<thead>
<tr>
<th>Element</th>
<th>Estimated Analysis¹</th>
<th>Estimated Analysis¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>3.53</td>
<td>Mg</td>
</tr>
<tr>
<td>Mn</td>
<td>0.64</td>
<td>Co</td>
</tr>
<tr>
<td>P</td>
<td>0.020</td>
<td>Ti</td>
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<tr>
<td>S</td>
<td>0.012</td>
<td>As</td>
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<tr>
<td>Si</td>
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<td>Sn</td>
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<tr>
<td>Cu</td>
<td>0.13</td>
<td>Al</td>
</tr>
<tr>
<td>Ni</td>
<td>0.048</td>
<td>Ca</td>
</tr>
<tr>
<td>Cr</td>
<td>0.045</td>
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<tr>
<td>V</td>
<td>0.010</td>
<td></td>
</tr>
<tr>
<td>Mo</td>
<td>0.005</td>
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</tr>
</tbody>
</table>

Analysis listed as percent by weight

¹ The above chemistry is supplied as an approximate guide to the composition and must not be regarded as the certified analysis. The analysis is based on the results of testing by a spark-source Atomic Emission Spectrometer. This material may be used for instrument drift control. It must not be used for instrument calibration.

Homogeneity: This Setting-up Material was tested for homogeneity using ASTM Standard Method E 826 and found acceptable. It was also examined by spark-source atomic emission spectrometry using ASTM Standard Test Method E 1999 and the estimated chemistry was found to be compatible with the following Reference Materials: NIST 1140 and C2425, BS CC-10, CC-18, 1C, 26A, 29, and 284D. BS 284D was selected as the drift correction standard.

Source: This material was melted by contract of Brammer Standard Company. It was melted by an electric arc furnace and poured into a Brammer designed mold.

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Telephone (281) 440-9396 Fax (281) 440-4432 www.brammerstandard.com

Data Sheet Number SU-CCA-091002p1
Form: This Setting-up Material is in the form of a disc, approximately 33 to 35 mm diameter and 20 mm thick. Both flat sides of each disc are chill-cast against a copper plate.

Use: This material is intended for use in optical emission and x-ray spectrometric methods of analysis.

Analytical area: Both sides of the disc may be used to a depth of 8 mm.

Caution: Because of the side-fill mold design, the vertical center 3 mm of each disc may contain shrinkage cavities which should be avoided as the voids can adversely affect analysis.

Sample Preparation: For best analytical results, use the same method for preparing the analytical surface on all setting-up samples as you use for production specimens. Avoid overheating the disc during surface preparation.

Data Sheet Number: The unique identification number for this data sheet is SU-CCA-091002-px, where x indicates the page number. Refer to future Brammer Standard Company catalogs for information on any revisions to this or other Brammer Standard materials. You may also obtain information on revisions from the internet at brammerstandard.com.

Safety Notice: A Material Safety Data Sheet (MSDS) is not required for this material. This material will not release or otherwise result in exposure to a hazardous chemical under normal conditions of use. Inquiries concerning this Setting-up Material should be directed to:

Brammer Standard Co., Inc. Phone: (281) 440-9396 www.brammerstandard.com
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B. R. Brammer

Brammer Standard Company, Inc., is accredited to ISO Guide 34 as a Reference Material Producer for the production of Certified Reference Materials and Reference Materials by A2LA. (Certificate Number 656.02)


Brammer Standard Company's Chemical Laboratory is accredited to ISO Guide 25 by A2LA. (Certificate Number 656.01)

References:

ASTM documents available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, Telephone: 610-832-9500 Fax: 610-832-9555 e-mail: service@astm.org Website: www.astm.org


Data Sheet Number SU-CCA-091002p2