**GUIDELINES**

**GENERAL INFORMATION**

The ILC scheme named Interlaboratory tests on cement meet the requirements of the standard EN ISO/IEC 17043:2010 “Conformity assessment. General requirements for proficiency testing”. Participation is confidential and each laboratory receives a unique code-number every year.

After completed the statistical calculation of the results, each participant receives a General Report which contains the results evaluation based on the “z”-score.

The cement samples put at participants’ disposal by CEPROCIM S.A, will be placed into work by ALL the participants between 6th – 17th November, 2023, taking into account the following indications:

* the cement will be worked in the same day in which the container will be opened;
* before perform the tests, the total quantity of cement enclosed in the container will be homogenized in order to better disperse the components possible segregated in time during the transport.

**INFORMATION REGARDING THE TESTS**

All participants in the scheme will use the cement received in the package. The sand used will be the one specific to each participating laboratory.

Before putting the sample into work, it must be homogenized due to the high tendency of cement to agglomerate.

The tests included in the scheme are according to EN 196-1:2016, EN 196-2:2013, BS EN 196-2:1995, EN 196-3:2016, EN 196-6:2018 and EN 196-10:2016.

The tests results will be filled in the RESULTS FORM and will be sent by e-mail or by fax to CEPROCIM S.A. no later than 22th December, 2023.

**CONTACT:**

Nicoleta VLAD, e-mail: nicoleta.vlad@ceprocim.ro

Cristina STANCU, e-mail: cristina.stancu@ceprocim.ro

|  |  |
| --- | --- |
| **Organisation name:** |  |
| **Contact person:** |  |
| **e-mail:** |  |

**RESULTS FORM**

|  |  |  |
| --- | --- | --- |
| TEST | U.M. | VALUE |
| L.O.I. (Loss on ignition), *according EN 196-2:2013* | % |  |
| SiO2, *according EN 196-2:2013* | % |  |
| Al2O3, *according EN 196-2:2013* | % |  |
| Fe2O3, *according EN 196-2:2013* | % |  |
| CaO, *according EN 196-2:2013* | % |  |
| MgO, *according EN 196-2:2013* | % |  |
| SO3, *according EN 196-2:2013* | % |  |
| Free CaO, *according BS EN 196-2:1995* | % |  |
| Ins. Res. in HCl and Na2CO3, *according EN 196-2:2013* | % |  |
| Na2O, *according EN 196-2:2013* | % |  |
| K2O, *according EN 196-2:2013* | % |  |
| Cl-, *according EN 196-2:2013* | % |  |
| Cr6+, *according EN 196-10:2016* | % |  |
| Residue on the 90 µm sieve, *according EN 196-6:2019* | % |  |
| Density, *according EN 196-6:2019* | g/cm³ |  |
| Specific surface area, *according EN 196-6:2018* | cm²/g |  |
| Standard consistence, *according EN 196-3:2016* | % |  |
| Initial setting time, *according EN 196-3:2016* | min. |  |
| Final setting time, *according EN 196-3:2016* | min. |  |
| Soundness (with Le Chatelier needles), *according EN 196-3:2016* | mm |  |
| 2-days Flexural strength, *according EN 196-1:2016* | MPa |  |
| 7-days Flexural strength, *according EN 196-1:2016* | MPa |  |
| 28-days Flexural strength, *according EN 196-1:2016* | MPa |  |
| 2-days Compressive strength, *according EN 196-1:2016* | MPa |  |
| 7-days Compressive strength, *according EN 196-1:2016* | MPa |  |
| 28-days Compressive strength, *according EN 196-1:2016* | MPa |  |

**LABORATORY MANAGER**

Name, surname

*NOTA: All the participants must put into work the sample between 6th – 17th November, 2023.*