

# Raw materials and melting

## Introductory training

duration  
1 ½ days

date  
March 9 – 10, 2022

location  
Eindhoven and/or Online

Raw material selection is the first step of the glass making process and may influence the complete production. The compromise between many economic, process and product requirements is explained during the course. The homogeneity of the batch will have an impact on the melting and final product quality so technologies to avoid segregation are described. Parameters to enhance the batch-to-melt conversion are also presented.

### Contents

- Characteristics of the classical raw materials used in the glass industry : chemical composition, origin, treatment, optimum grain sizes...
- Batch composition and melting energy
- Melting reactions and kinetics
- Batch handling, segregation and charging
- Recycling and cullet
- Influence of raw materials on glass redox

### Training methods

We offer a blended learning approach by mixing e-learning, lectures, open discussions, exercises, and case studies in teams or individually. The number of participants per course is between 8 and 20 to maximize your learning experience. Participants always receive the presentations and a training certificate.

### Level of seniority

This training is meant for novice to advanced beginners who would like to improve their understanding and apply the knowledge during practical cases.

### Investment

Training costs **€ 1450** per participant. When onsite, price includes 2 lunches and 1 dinner. It excludes tax and duties. The 6th participant from the same company can join for free.

### After the training

- You have a clear understanding of the main criteria for raw material selection.
- You can optimize your raw materials according to the specification of your process and products regarding redox, energy consumption, emissions, melting rate.
- You can solve problems related to segregation and batch handling.
- In the context of concerns about emissions and energy consumption, you have ideas on innovative alternatives for current raw materials.

Cancellation fees apply. 1 week before training 50%; no show, full price. In case of an unexpected event, we are happy to look for rescheduling or voucher options. CelSian reserves the right to cancel up to two weeks prior to the training, proposing new dates or refunds. Are you registering as a group? You are entitled to a 15% discount on all courses: for 5 registrations, the 6th participant can join for free.



We welcome your questions by e-mail: [academy@celsian.nl](mailto:academy@celsian.nl) Register on [www.celsian.nl](http://www.celsian.nl)

Online access to this training can be offered and the training may be fully given online.