

HIGH-PERFORMANCE CERAMICS

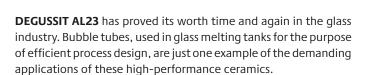
BUBBLE TUBES FOR THE GLAS INDUSTRY

Application:

Used in glass melting tanks of efficient process design

Material:

Aluminium Oxide (Al₂O₃) **DEGUSSIT AL23**



Bubbling initiates the formation of a so-called convection current ensuing from the gas bubbles rising from the bottom of the melting tank. This ensures that "cold glass" from the bottom of the melting tank is again transported to the surface. Refinement and homogenisation of the glass melt is thus accelerated, resulting in higher melting efficiency. The creation of air bubbles and/or a complete air-bubble curtain at the end of the tank melting zone is carried out by means of a row of bubble tubes inserted from the base of the tank by means of borings in the hearth blocks, transverse to the tank axis.

As the borings are small in diameter, any infiltration and cooling of the glass melt in the ceramic tube is excluded. The system is designed in such a way that, in case of wear on the tube tips, the bubble tubes can be inserted further into the hearth block.



- ▶ High temperature resistance
- ▶ Corrosion resistande
- ▶ High dielectric strength
- ▶ Good thermal conductivy
- ▶ Good thermal shock resistance

Competence in Advanced Ceramics

Engineering for customized solutions