

R&D

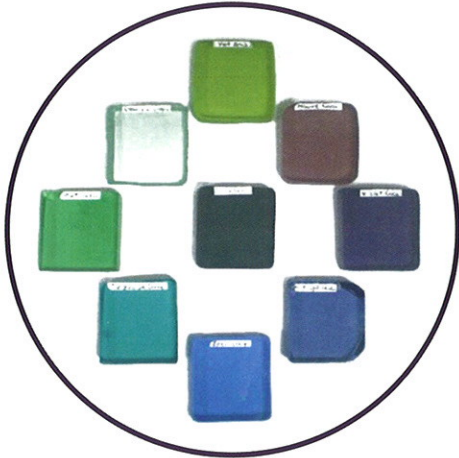
Engineering

Refractories
workshop

Engineering
services

GLASS CHEMISTRY LABORATORY

Central laboratory services of Arc International



New Glass Colours Development



3 keys areas of knowledge:

- Development of glass compositions: soda-lime/borosilicate glass-ceramic/fluosilicate/crystal glasses and colours
- Physical and chemical analysis
- Environmental monitoring



Glass
Production
Monitoring



- Continuous analysis of Arc International and subsidiaries production plants by XRF, AA & ICP
- Color and Redox measurements (spectrophotometer)
- Control of coating treatments (SnO_2 , TiO_2)
- Control of raw materials and dusts emissions
- Conformity checks and controls of the final product according to EU standards
- 24/7 continuous monitoring with over 12000 analyses per year

AGMS

ARC GLASS MELTING SOLUTIONS



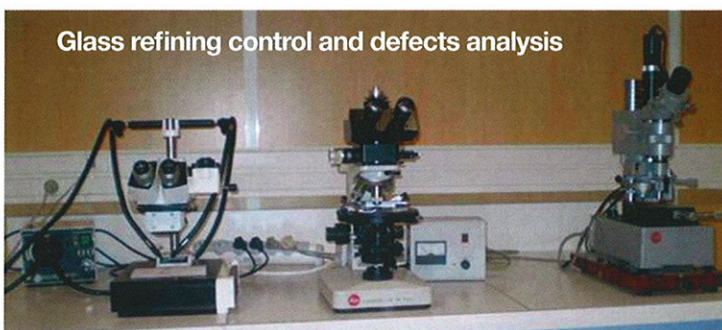
Optimisation of glass composition with pilot-scale furnaces



Environmental Monitoring

- Lead (Pb) in ambient atmosphere and glass items controls according to CONEG legislation (over 50 analyses per year)
- Waste gas treatment controls
- Occupational Health and Safety controls
- Process water controls according to EU standards

- Glass refining assessment
- Stones & cords identification by microscope and completed with XRD & XRF analyses
- ISO 17025 accreditation scheme in progress
Interlaboratory protocol monitoring (LNE, Alasca ...)



Glass refining control and defects analysis