ELECTRICAL ENGINEERING SECTOR - TECHNICAL AND INDUSTRIAL DESIGN - BOILER AND THERMAL ENGINEERING SECTOR - HIGH-TEMPERATURE APPLICATIONS

MONOLITHIC CERAMIC COMPONENTS

F.lli BIGARAN
TECNOLOGIE MECCANICHE FERROVIARIE

CODICE: -

HIGH COMPLEXITY MONOLITHIC CERAMIC COMPONENTS

IMPIEGO D'USO: USED AS AN INNOVATIVE MATERIAL IN THE MANUFACTURE OF ARC-CHUTES.

The new frontier of technical molding. Following in-depth studies on materials chemistry and the application of advanced molding techniques, F.lli Bigaran is now able to produce monolithic ceramic components with highly complex geometries, which until recently were impossible to achieve in a single piece. **This innovation stems from a concrete challenge:** overcoming the limitations in the production of arc-extinguishing chutes for low- and medium-voltage circuit breakers and contactors. **The problem with traditional technologies** - Simplified and modular geometries - Multiple assemblies - Use of organic adhesives - Low mechanical strength - Poor thermal diffusion Result: reduced reliability under high-temperature and aggressive arc conditions. **The Bigaran Solution** - Manufactured as a single monolithic piece - Complex geometries without compromising original design - High mechanical strength - Improved thermal management - Elimination of adhesives and weak materials Result: a safer, higher-performing, and longer-lasting component.

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F.lli BIGARAN S.r.l.
Via dell'industria, 51 (Z.I. D3) - 15121 Alessandria
tel. +39 0131 34.68.83 - fax +39 0131 34.20.03 - info@fratellibigaran.com - www.fratellibigaran.com