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## PRODUITS OU MACHINES

### Glass Systems

Ferro supplies innovative glass colors and coatings, which add value to automotive, flat and container glass in the global market. The Ferro Glass Systems brand is built around innovation, quality, technical service and global reach.

Forehearth coloration was pioneered by Ferro as a cost-effective alternative to coloration in the glass tank – particularly for special colors or short campaigns – for glass bottles, tableware, giftware and architectural glass.

### Automotive

Ferro is market leader and has led the development of HMF black bands and conductive pastes for the global automotive industry. These products are specified by all the major glass manufacturers and can be seen on vehicles made by all the global auto-makers, including GM, Ford, Daimler-Chrysler, VW, Toyota, Honda, Hyundai, BMW and Mercedes.

Ferro was one of the first to develop a lead-free enamel for use around auto windshields that met critical parameters set by the Industry. Lead-free enamels are environmentally beneficial and help auto manufacturers reduce costs and hazardous waste.

### Architectural & Appliance

Ferro was the first to develop and introduce HMF enamels for spandrel glass used in office buildings and other commercial facilities, and is now the market leader. Over the last decade, almost every glass decorator in the US and Europe has switched to lead-free coatings for spandrels, glass oven doors and furniture glass, a majority of which is supplied by Ferro Glass Systems.

Ferro is also developing innovative new products for flat glass, such as its unique s1de ONE lead-free architectural enamels, LustReflex semi-mirror decorative coatings, and AR functional coatings.

### CerMark™ Laser Marking

This patent protected technology delivers permanent marks on metals, glass and ceramic parts for a diverse range of industrial and manual applications, ranging from aerospace to the awards & engraving Industries.

Ferro works in partnership with CerLase and TherMark to offer a full laser marking package including technology licensing, integrated equipment solutions for industrial applications and CerMark materials. TherMark is an official distributor of Ferro laser marking materials.

For metals, parts can be permanently marked with high contrast, high resolution marks for logos, bar-coding, identification and serialisation purposes, without damage to the substrate.

With glass and ceramics, complex surfaces can be decorated or marked and the traditional firing process replaced by a laser, with its permanent bond fired on in seconds.

### Conductive Pastes

Ferro produces a wide variety of silver pastes and special products for automotive glass applications, including heating grids and antennas.

### Container

Ferro is unique in offering a package of decorative solutions for coloring, both in-the-glass and on-the-glass. Glass Systems' lead-free glass enamels, AcE imitation acid etch coatings, SpecTruLite™ organic inks and water-borne organic coatings, and forehearth colors offer a complimentary range of products for the entire hollow-ware glass market segment.

Ferro co-operates closely with designers and glass industry technicians to provide environmentally-friendly products and to enhance the design potential of single-trip and multi-trip glass bottle packaging, glass tableware, tumblers and specialty glass.

Brand managers of many premium global brands in the cosmetics, perfumery and beverages markets depend on Ferro products to deliver 'stand-out' shelf quality for their glass packaging.

**Forehearth Color (FHC) Technology**

All Ferro Glass Systems' new products are formulated without lead and are designed inside application vehicles that minimise the release of VOC's from the firing process.

Ferro offers 30 years of experience in FHC technology and design, development and troubleshooting. Almost all colors produced in the tank can be made using FHC technology. In addition, FHC delivers many advantages over tank coloration, such as improved productivity, greater flexibility, lower inventory and shipping costs and reduced energy consumption. FHC equipment and layout design services are offered, together with a full color matching service to suit your particular glass formulation(s).

**SpecTrulite™**

**Company Profile of Ferro Corporation**

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