Gullco Enhances Welding Efficiency With Ceramic Backing Solutions

April 29, 2026

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Gullco International, a North American manufacturer with over seven decades of experience in welding automation and productivity solutions, has announced expanded availability of its KATBAK ceramic weld backing product line designed to improve weld joint quality while reducing labor costs associated with reverse-side grinding and rework.

The KATBAK ceramic weld backing system enables fabricators to produce fully penetrating welds from a single side of the joint, eliminating the need for costly gouging and back-grinding operations that traditionally extend project timelines. By allowing welders to achieve x-ray-quality back beads on the root pass in a single operation, the product addresses a persistent challenge in structural welding and industrial fabrication environments where access to both sides of a joint is limited or impractical.

Jeff Zook, Director at Gullco, said the ceramic backing solutions reflect the company's ongoing commitment to helping welding operations improve throughput without compromising quality. "Our KATBAK products are engineered to deliver consistent root pass performance across a wide range of joint configurations," Zook said. "Fabricators are under constant pressure to reduce cycle times and minimize defects, and ceramic weld

backing provides a practical solution that addresses both of those demands simultaneously."

The KATBAK system features a pressure-sensitive foil adhesive design that provides reliable adhesion to the workpiece during the welding process. The broader heat-receptive foil configuration helps ensure that the backing remains securely positioned throughout the weld, contributing to uniform back bead formation and reducing the likelihood of weld defects that would otherwise require rework. The product is available in standard sizes ranging from one-quarter inch to two inches, with custom configurations available for specialized applications.

The application process is designed for simplicity and speed. Welders size the ceramic backing to fit the joint, remove the adhesive film, and apply the backing to the center of the joint before welding from the front side. After the weld cools and gases disperse, the ceramic material and any residual slag are removed, leaving a clean, fully penetrated weld joint. This streamlined approach to single-sided welding reduces the number of steps required compared to conventional methods that involve flipping or repositioning heavy assemblies.

Zook noted that demand for ceramic backing solutions has grown as fabrication shops seek ways to improve operational efficiency without investing in entirely new equipment or processes. "Many of our customers are working with tight tolerances and demanding inspection requirements," Zook said. "The ability to produce a compliant root pass from one side of the joint saves significant time on weld joint preparation and eliminates the need for overhead or out-of-position gouging work that slows production."

The non-toxic composition of the KATBAK product makes it suitable for use in enclosed fabrication environments where air quality and worker safety are primary considerations. The ceramic material is engineered to withstand the thermal demands of the welding arc while providing a stable surface against which the molten weld pool can form a controlled back bead.

Gullco manufactures its ceramic weld backing products at facilities in North America, supported by more than twelve million dollars in CNC equipment investment. The company maintains operations in Macedonia, Ohio, and Newmarket, Ontario, serving customers across the welding, fabrication, and industrial manufacturing sectors. The ceramic weld backing announcement reinforces the company's position as a resource for productivity-focused welding consumables and automation equipment.

The KATBAK product line is part of Gullco's broader portfolio of welding productivity solutions, which includes automated welding carriages, electrode ovens, and fume extraction systems. The company has built its reputation over more than seventy years by developing tools and consumables that help welding operations increase output while maintaining strict quality standards for penetration welding and joint integrity.

Fabricators and welding professionals seeking additional information about the KATBAK ceramic backing

system and available configurations can visit www.gullco.com to review product specifications and request custom sizing options.

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Gullco International

Gullco International is a leading manufacturer and world supplier of welding automation, with over 70 years in business, available in 80 countries worldwide.

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