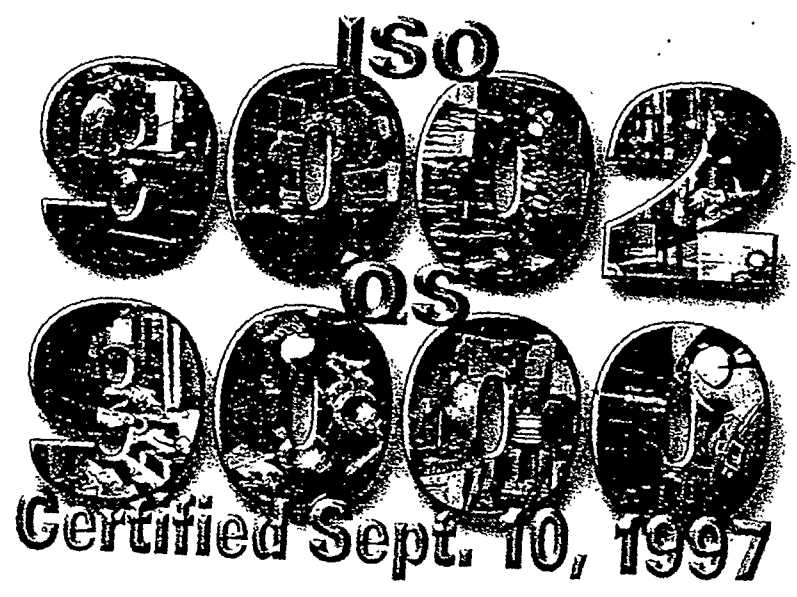




The HILL and GRIFFITH Company



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Services for the Metal Casting Industry

Commitment to Continuous Improvement

From its founding in 1896, The Hill and Griffith Company has been recognized for many "firsts" it has contributed to the metal casting industry. With an ongoing investment in research and development, we have achieved unparalleled leadership in the introduction of new technologies, as well as in quality consistency and superior service and support.

To Learn more please select from the list below:

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New Product And Processes

Our research & development staff has introduced several new products and continues to be one of the sources of problem resolution for the foundry industry. In addition, our plant expansions and manufacturing upgrades have provided us the best in process capabilities to meet your casting requirements.

Quality Program

Our experience and the requirements of our "Hill & Griffith Quality Program" produce the industry's most consistent and highest quality products. Hill & Griffith has received substantial recognition via customer quality awards.

SPC & Certification

Hill & Griffith utilizes state-of-the-art statistical process control measures to monitor, verify and document product quality. Automotive QS 9000 certification was achieved September 10, 1997.

Sand Testing

Technicians in our lab facilities use the latest testing and documentation equipment to analyze your samples, report the results and assist you in achieving optimum performance of your processes.

Technical Service

Our technical service staff utilizes degreed and foundry-trained technicians to conduct on-site assistance, process surveys, casting defect investigations, product testing, machine start-ups and much more.

Warehousing Facilities

Hill & Griffith direct sales warehouse facilities are strategically located in Birmingham, Alabama; Burbank, Ohio; Chicago, Illinois; Cincinnati, Ohio; Indianapolis, Indiana; and Milwaukee, Wisconsin. These locations allow you to take advantage of our customized and reliable on-time delivery program.

Sales Commitment

Our current staff of 11 direct sales people and 8 distributor organizations achieves complete coverage of the North American metal casting industry. You can be certain of Hill & Griffith's rapid response to meet and exceed your expectations.

Research

Hill & Griffith's aggressive, ongoing research and development effort means customers receive cost effective, innovative and environmentally sound products. Our commitment to quality and productivity is unmatched.

Electronic Data Processing

Another example of our service-oriented approach to business is our EDI system. This paperless transaction capability makes on-line reordering quick, easy and economical, and is available today from Hill & Griffith.

Bar Coding

For your convenience in monitoring inventory receipts and disbursements, we offer product and/or package bar-coding programs designed to meet your specifications.

Training

Helping you succeed is our business. Our training and support programs include seminars at customer locations or at Hill & Griffith facilities, with hands-on assistance in your foundry and access to our comprehensive video library and training aids. We are always available to work with you.

SPECIALTY PRODUCTS

Core And Mold Coatings

Refractory coatings provide molds and cores with an impervious barrier between the sand surface and the molten metal. This ensures excellent sand peel from casting with improved casting finish.

Release Agents And Partings

A complete line of release agents and partings include green sand liquid partings like Super Slik for high pressure molding, and Y-250 Liquid Parting which is specifically produced for patterns difficult to draw. To overcome environmental and health factors where non-liquid releases are need, Avon Dry Parting is available. A complete line of COBRA (Cold Box Release Agents) are stocked. For no bake applications, Air Set Release is unmatched.

AquaPart II® - A patented, unique water-based liquid parting which provides improved odor characteristics and reduced flammability for foundry molding applications. Flammability has long been a concern in automatic molding operations, and with the water-based formula, this problem can be minimized or eliminated.

Die And Squeeze Casting Lubricants

Diluco™ - The industry's most consistent and highest quality die lubricants. Water-based formulas handle wide temperature variations and effectively control staining and soldering.

Slag Set Slag Conditioners - a blend of materials which improve results over the single mineral slag coagulants frequently used in the foundry industry.

Plunger Lube™ - a water-based plunger lubricant for cleaner, efficient cooling. An effective, economical oil-based lubricant for most operations.

Permanent Mold Coatings

Concote™ - A ready to use, low pressure die casting and permanent mold coating formulated with special refractories, binders, wetting agents, and preservatives.

Red Chief Core Paste - A water-based adhesive with a rapid drying characteristic when applied to warm cores or dried in a conventional oven.

Green Hornet™ - A water based adhesive that provides good strength in a relatively short

period of time. The product has excellent storage life.

Shurstik 306 Core Adhesive - A solvent-based product designed to meet the increasing demands for higher production rates and efficiency. The product exhibits excellent strength with short periods of set time.

Mudding Compounds - Hill and Griffith offers many types. Compounds can be easily worked into core joints and smoothed without special tools or techniques, reducing grinding and cleaning of finished castings.

Core Oils

Hill and Griffith offers a conventional core oil, formulated with alkyd oils, petroleum resins and drying agents, which is used in operations that require high strength and minimum of baking time. Applied as a solvent-less binder, the consistency of the cores produced is very high. Applied as a solvent containing binder, the cost of the product is decreased for the user. Hill and Griffith also offers water-borne emulsified core oils for reduced hydrocarbon emissions.

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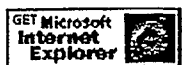


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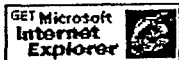


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Premix™ Foundry Sand Additives

Product Bulletin

Since 1896 the Hill and Griffith Company has been a leader in the Foundry Supply Industry. Two specific reasons for this long respected position are devotion to the development of modern and efficient production methods and an uncompromising desire to give excellent service to our foundry customers.

Hill and Griffith is a pioneer in the development of the PREMIX™ concept and introduced its first PREMIX™ a combination of carbons and clays, in the early 1930's under the trade name Lavobond.

The premix facilities located at Cincinnati and Burbank, Ohio; Chicago, Illinois; and Birmingham, Alabama, are examples of Hill and Griffith's continuing effort to improve its production methods and provide better service for the members of the cast metals industry.

Efficiency - Hill and Griffith's modern blending equipment permits the necessary sand additives to be mixed according to the customer's specific formula. This prescription blending method provides foundrymen with the ability to adjust and control additive requirements for the entire range of cast metal production.

Although PREMIX™ varies according to the type of castings being produced, all of the quality ingredients listed on the product bulletin can be used.

Prewetting - Recent foundry bag house studies revealed a large percentage of dry additives escaping through muller exhaust system. Controlled moisture additions to Hill and Griffith PREMIX™ reduces these losses at the muller and reduces operation costs by eliminating the need for elaborate dust arresting equipment.

Prewetting assures rapid additive dispersion in the mulling cycle. Prewetting reduces segregation of dissimilar weight components in the premix, thus stabilizing the manufactured product blended ingredients. Because of these reasons; Hill and Griffith reserves the right to add moisture as necessary.

Hill and Griffith PREMIX™ simplifies inventory control. PREMIX™ lowers the required investment of total inventory to two or more sand additives.

Economy of Bulk Storage - Bulk handling of Hill and Griffith PREMIX™ assures a reduction in the total labor cost of sand systems. Bulk storage systems permit use of automated equipment to deliver sand additives directly to the muller on an accurately formulated and controlled basis.



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The HILL and GRIFFITH Company

Quality and Service Since 1896

Corporate Office
1085 Summer Street
Cincinnati, Ohio 45204
1-800-543-0425 • 513-921-1075
Fax 513-921-9180

PREMIX™

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Hill and Griffith is a pioneer in the development of the **PREMIX™** concept and introduced its first **PREMIX™** a combination of carbons and clays, in the early 1930's under the trade name Lavobond.

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Efficiency - Hill and Griffith's modern blending equipment permits the necessary sand additives to be mixed according to the customer's specific formula. This prescription blending method provides foundrymen with the ability to adjust and control additive requirements for the entire range of cast metal production. As a result of the dedication and hard work of the personnel in our manufacturing facilities we completed the requirements for the ISO/QS-9000.

Although **PREMIX™** varies according to the type of castings being produced, the following quality ingredients can be used.

Clays	Celluloses	Carbons	Special Additives
Western Bentonite	Cob Flour	Seacoal	Soda Ash
Southern Bentonite	Ground Oat Hulls	Klean Kast™ 2000	Iron Oxide
Fire Clay	Ground Peanut Hulls	EZ Flow	Dextrin
		Carbonite®	Carbonite® SA
		Lustracarb	Carbonite® RSB
		Carbonite® 2000	Heavy Weight Cereal
		Gilsonite	
		Apeel	

Pre-wetting - Recent foundry bag house studies revealed a large percentage of dry additives escaping through muller exhaust system. Controlled moisture additions to Hill and Griffith **PREMIX™** reduces these losses at the muller and reduces operation costs by eliminating the need for elaborate dust arresting equipment.

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PREMIX™
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