



## Casthouse Consumables For Continuous Casting Of Aluminum Sheet. ZIRCAR Ceramics, Inc. New York, USA

ZIRCAR Ceramics, Inc. is a New York, USA based manufacturer and international marketer of a wide range of engineered high temperature materials. With 39 years experience as a producer of the most advanced ceramic fiber based thermal, electrical and structural insulation materials ZIRCAR Ceramics, Inc. now offers an extensive lineup of consumable products designed to help continuous sheet casters make better metal.

Casthouse products include: several varieties of castertip products for use on all makes of twin roll casters; precision CNC machined baffle and side dam board products; end dams of laminated paper, rigid board or engineered graphite; vacuum formed head boxes, troughs, launders and tundishes; papers for castertip linings or gaskets; several grades of refractory adhesives; graphite release agent; boron nitride coating; CNC machined graphite shafts, rotors and flow control components. Combined, these products are bringing cost-effective high performance to CC operators in countries all around the world.

We thank you for your interest in ZIRCAR Ceramics, Inc. and for the opportunity to be of service to you.

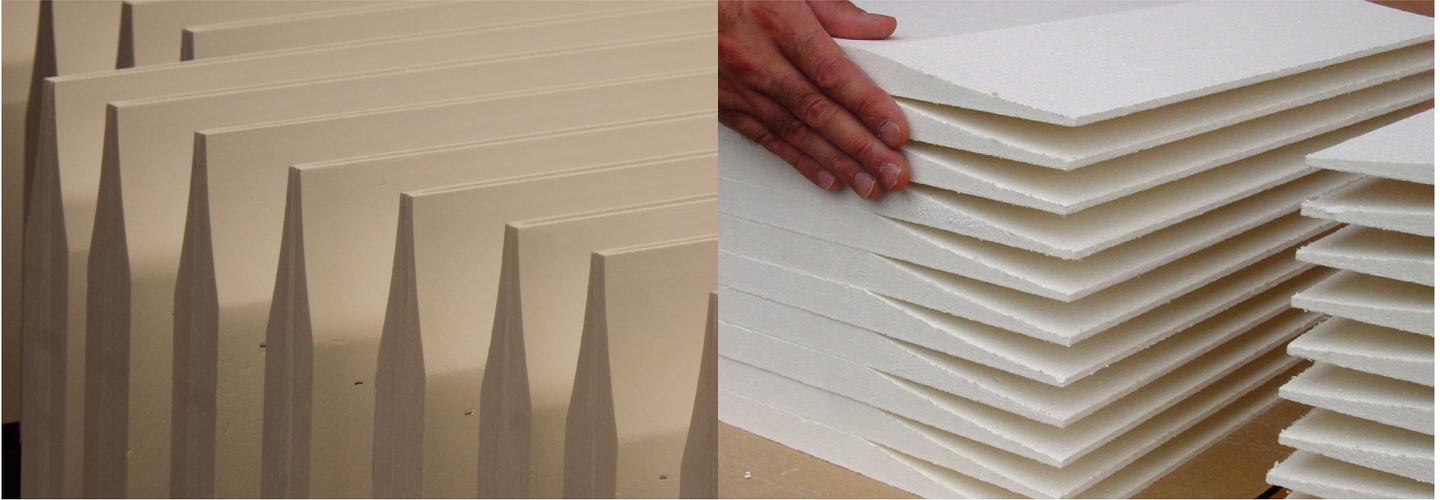


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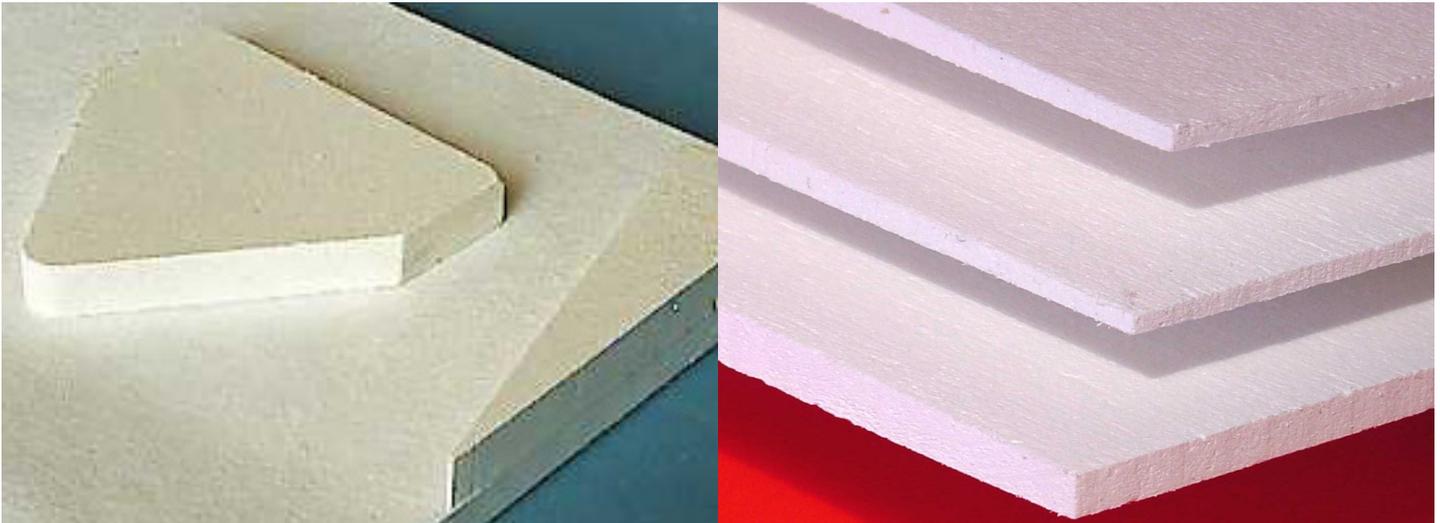
Castertips - for all makes of twin roll casters. "Hard Tips" or "Soft Tips" all grades are manufactured of shot free high purity fiber and inorganic refractory binders.



**Castertip TYPE NKO+** is Zircar Ceramics' flagship hard castertip. Readily coated with BN or lined with paper NKO+ is produced in four standard and in several custom profiles in widths up to 2362mm. NKO+ is a precision castertip used in the casting of thin and ultra thin sheet.

**Castertip TYPE ASQ** is ZIRCAR Ceramics' premium grade of soft castertip. Incorporating a non-reactive  $Al_2O_3$  binder system ASQ is not wet by most molten aluminum alloys and can be ground to the roll profile required in situ. ASQ is machined to match specified roll diameters.

**Baffle Boards - every caster operator utilizes their own unique baffle arrangements that were developed in order to achieve particular operating objectives.**



**RNKO** is a medium density highly machinable fiber board material made of the same NKO+ ingredients - just to a slightly lower density. RNKO is available in precision machined baffle and end dam parts as well as in boards 250mm x 1000mm (10" x 40")

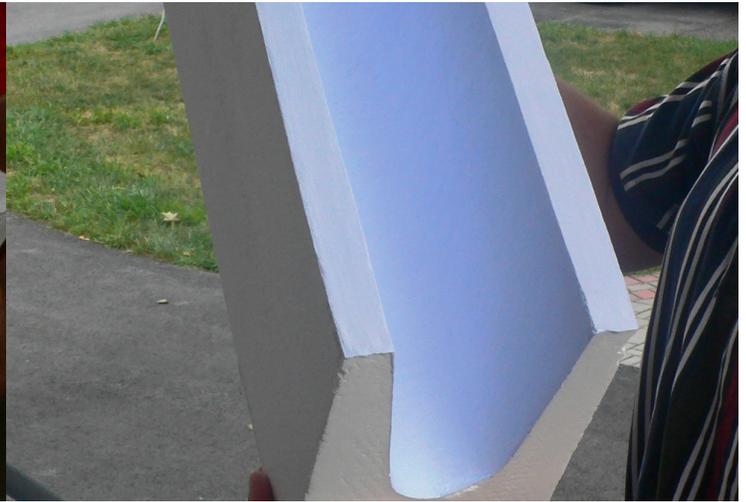
**ECO-1200** is a utility grade of baffle board typically used to match the softness and thermal conductivity of ASQ Castertips. ECO-1200 is produced in organically bonded and organic free varieties in precision machined wedge shaped baffles and 610mm x 915mm (24" x 36") boards.

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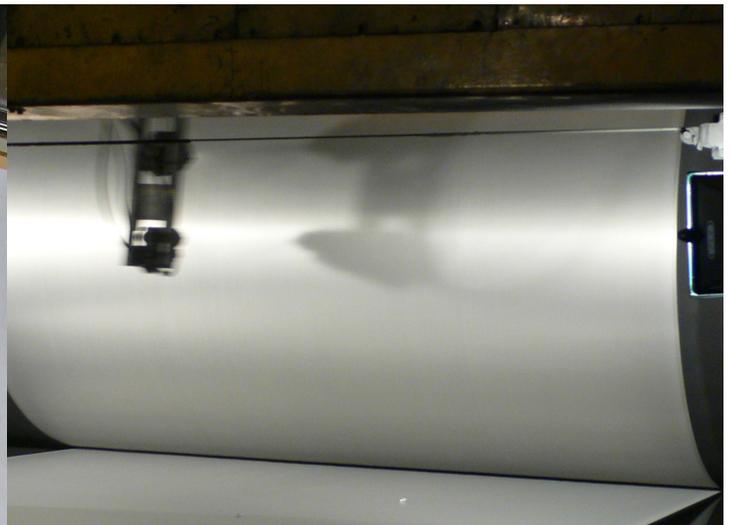
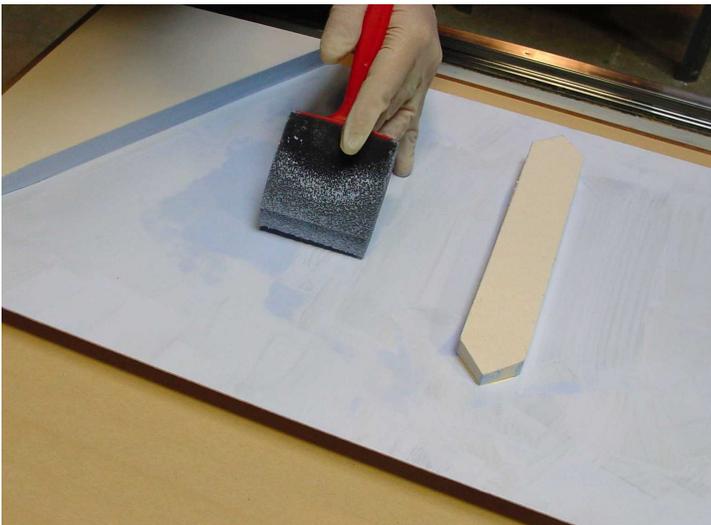
7 vacuum forming lines and 40+ unique bodies - caster operators can select the optimal low density shape and bring maximum value to their operations.



**UNIFORM A-1** Headboxes and Launderers are low density inorganically bonded ceramic fiber components of molten metal delivery systems. Changed at regular intervals U A-1 Headboxes and Launderers work to maintain proper melt temperature and head levels.

**UNIFORM A-2** Troughs are vacuum formed bodies approximately 2x the density of U A-1. Stronger, a bit more resistant to mechanical abuse yet very low in thermal conductivity, U A-2 Troughs work to maintain melt temperatures over long trough runs.

**Coatings - molten aluminum sticks to many things - until it becomes solid. With 3+ decades producing colloidal binder systems ZCI's BN and Graphite help you too.**



**SLICOAT-ES** is a very stable suspension of Boron Nitride crystals in water. These crystals make up 80+% of SLICOAT-ES's solids, making this paint-like coating an extremely effective non wetting coating for use on castertips, headboxes, launders and other melt contact surfaces.

**SHELLCOAT-B2** users claim it is one of the most economical to use graphite roll release agents they have used. Useful on most aluminum alloys SHELLCOAT-B2 can be applied at nearly half the deposition rate of other graphite products with no settling - anywhere, anytime.

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Degassing and Filtration - making good metal means making clean metal. With International Manufacturing Partners ZCI brings you a world of useful products.



**CNC Machined Graphite** shafts, rotors and flow control components in isostatically pressed and molded bodies. Ultra fine grain for maximum wear resistance and sealing capabilities. World class oxidation resistant infusion for maximum life at melt line.



**Tabular Alumina Filter Balls and Gravel** for deep bed filtration systems. High density and fired at high temperatures, ZCI's Tabular Alumina Filter media play a very important role in enhancing the value of each ton of cast metal.



ZIRCAR Ceramics' corporate headquarters, vacuum forming facilities and CNC machine shop are located in Florida, NY with castertip production, die-cutting, shipping and receiving in Chester, NY - approximately 100 KM Northwest of New York City

**Proudly Represented By:**



# Zircar<sup>®</sup> CERAMICS

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