



## Soluble-Fiber Castertip Type Z-MAG/HT+

### General Information

ZIRCAR Ceramics' Castertip Type Z-MAG/HT+ is a Non-RCF "hard" castertip for use on twin-roll continuous aluminum strip-casting equipment. Z-MAG/HT+ combines shot-free Alkaline Earth Silicate (AES "bio-soluble") fiber with inorganic binders. The fibers built into this product are not regulated under EU Directive 97/69/EC.

Z-MAG/HT+ offers caster operators a wider selection of castertips from which to choose. Z-MAG/HT+'s proprietary manufacturing process makes it completely inorganic with extremely low chemically-combined water. Z-MAG/HT+ does not outgas upon contact with molten aluminum. Z-MAG/HT+ castertips can be coated with Boron Nitride or Aluminum Oxide coating such as AL-CEM/XTW..

ZIRCAR Ceramics' castertip manufacturing process permits castertips to be manufactured in widths up to 2400mm (94.5"). We also manufacture custom, precision-crafted Castertip Assemblies which enable users to lower their cost of ownership by reducing their tip shop costs.



### Characteristics & Properties

Color	White
Fiber	Alkaline Earth Silicate (AES) Fiber
Binder	Silica
Typical Composition, %	
Al <sub>2</sub> O <sub>3</sub>	-
SiO <sub>2</sub>	77
MgO	20
Other	3
Density, g/cc (pcf)	0.64 (40)
Compressive Strength **, MPa (psi) at 10% Compression	1.7 (250)
Linear Shrinkage‡, %	
24 hrs. at 800°C (1472°F)	0.8
24 hrs. at 1000°C (1832°F)	2.5
Modulus of Rupture **, MPa (psi)	5.5 (800)

The data presented herein is intended to help the user to determine the appropriateness of this material for their application. This data is a nominal representation of this new product's properties and characteristics and therefore should not be used in preparing specifications. Properties are typical of recent production and are subject to change. \*\* Properties expressed parallel to thickness. ‡ Properties expressed perpendicular to thickness.

### ZIRCAR Ceramics, Inc.

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Technical Data Bulletin  
Soluble-Fiber Castertip Type Z-MAG/HT+  
[www.zircarceramics.com](http://www.zircarceramics.com)  
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## Suggested Applications

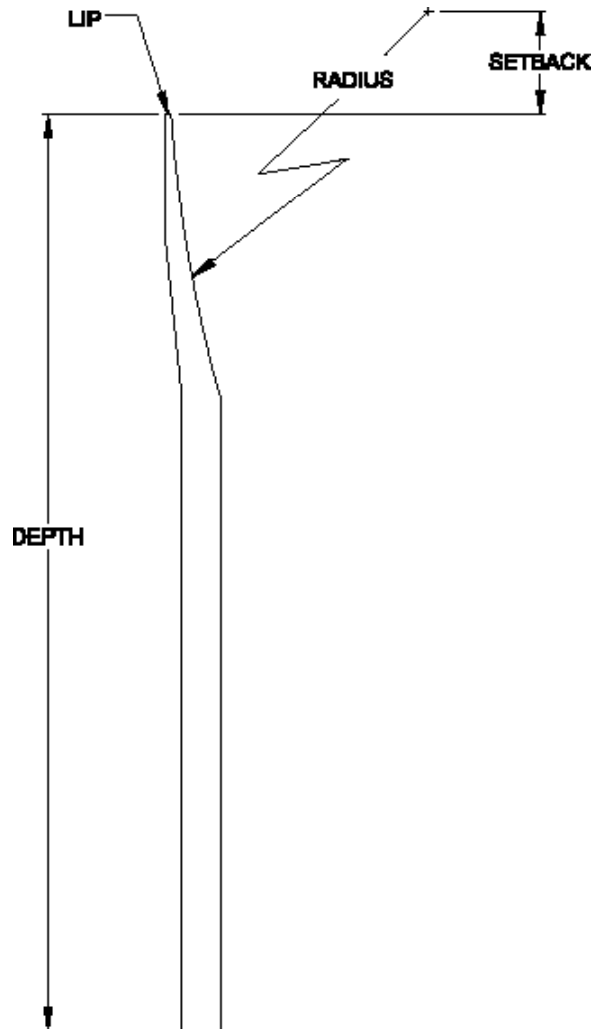
Castertips for continuous casting of aluminum strip.

## Availability

Z-MAG/HT+ Castertips and Castertip Assemblies are made to order. Four Standard profiles are available which are described in the table below.

Non Standard Z-MAG/HT+ Castertips and Castertip Assemblies are also available.

Castertip Tip Profile, Drawing Number	Radius , mm (in.)	Lip Thickness, mm (in.)	Max width, mm (in.)	Max depth, mm (in.)
<a href="#">Profile 3, D# 1167-00</a>	327.03 (12.875)	1.80 (0.071)	1803.4 (71.0)	315.01 (12.40)
<a href="#">Profile 4, D# 1164-00</a>	495.30 (19.500)	2.03 (0.080)	1870.00 (73.6)	342.9 (13.50)
<a href="#">Profile 6, D# 1166-00</a>	559.99 (22.047)	2.05 (0.081)	2400 (94.5)	368.3 (14.50)
<a href="#">Profile 7, D# 1165-00</a>	783.45 (30.844)	2.20 (0.087)	2400 (94.5)	368.3 (14.50)



## To Order

Contact ZIRCAR Ceramics, provide drawings describing castertip requirements, and we will provide an offer.



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