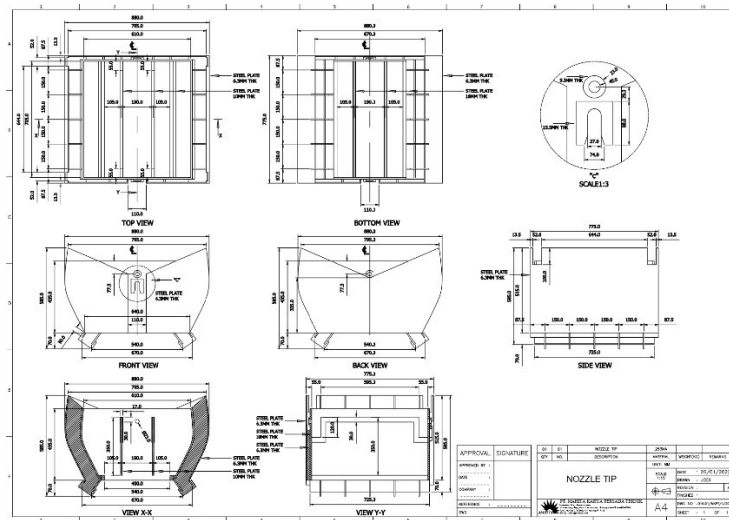
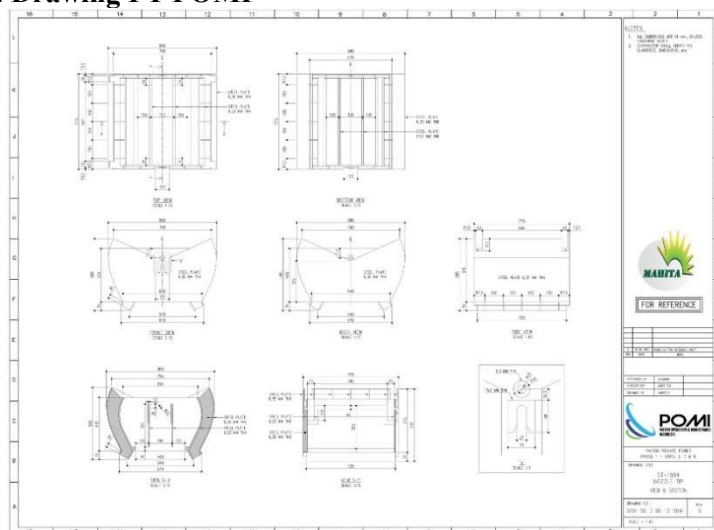


LAMPIRAN

Lampiran 1Drawing PT Mahita Persada Teknik



Lampiran 2 Drawing PT POMI



Lampiran 3 Nozzle tip Burner



Lampiran 4 Material - ASTM A216 WCB



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A216 WCB

Standard Specification for Steel Castings, Carbon, Suitable for Fusion Welding, for High-Temperature Service

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A216 / A216M Steel Castings, Carbon, Suitable for Fusion Welding, for High-Temperature Service

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.300 max.	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.500 max.		
Nickel	Ni %	0.500 max.		
Molybdenum	Mo %	0.200 max.		
Copper	Cu %	0.300 max.		
Vanadium	V %	0.030 max.		
other	Other %	1.000 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	485 - 655
-	-	-	Yield Strength in Mpa	250 min.
-	-	-	Elongation in %	22 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA 216 WCB	ASME	USA	Casting
A757 A1Q	ASTM	USA	Casting
J03002	UNS	USA	Casting
1.0619	WN	Germany	Casting
1.0619	EN	European Union	Casting
A660 WCB	ASTM	USA	Fusion Welding, Bending and Forming
SA 660 WCB	ASME	USA	Centrifugal Casting

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

ONE STOP SOLUTION FOR METAL PARTS

Lampiran 5 Zirconia Coating



General Information

ZIRCAR Ceramics' Zirconia Coating Type ZC-2 is water-based, concentrated suspension of Zirconium Oxide. When applied to ceramic, graphite or metal substrates ZC-2 imparts a high-purity Zirconium Oxide (ZrO_2) surface that is extremely resistant to molten metals, metal slags, weld splatter and other reactive compounds. ZC-2 dries hard to a smooth surface.

ZIRCONIA COATING Type ZC-2



Characteristics & Properties

Color	Cream
Typical Composition, % dried	
ZrO_2	95 - 99
Al_2O_3	1-5
Maximum Use Temperature, * °C (°F)	1900 (3500)
Coverage, ft ² /gallon on non-porous surface	250 to 500
Shelf Life	One Year +

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 product's properties and characteristics and therefore should not be used in preparing specifications. * Maximum use temperature is dependent on variables such as stresses, both thermal and mechanical, and the chemical environment that the material experiences.

Suggested Applications

Non-wetting wash for Crucibles, Molds, Ladles and Spouts for use in Ferrous and Non-Ferrous Metals.
Non-stick coating for saggers, setters and fixtures for use in powder metal and electronic ceramic sintering.
Refractory masking in laser drilling applications.

Availability of Standard Coating

ITEM #	DESCRIPTION
A39-01	ZC-2, 1 Gallon

To Order:

Standard items: ZC-2 is made to order and will usually ship approximately 7 business days after an order is accepted.

Custom preparations, such as 5-gallon bucket, are available.

Use Instructions

- 1) Clean surfaces to be coated, making certain they are free of contamination and loose particles.
- 2) Mix contents gently yet thoroughly before using. Stirring with a spatula is usually sufficient. Passing ZC-2 through a screen/filter can help remove large solid particles that may have formed as a result of material drying on container walls above the fluid line during storage.
- 3) Thoroughly coat surfaces with cement. Application of thin layers of material can be achieved by brushing, spraying or dipping. Allow time for each layer to air dry (below 60°C/140°F) before applying more. Reapply the material as required to assure even coating and desired thickness.

ZIRCAR Ceramics, Inc

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Technical Data Bulletin
Zirconia Coating Type ZC-2
www.zircarceramics.com
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