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AIN Plastics Division



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Mar-Bal Standoff Insulators
Glastic Standoff Insulators

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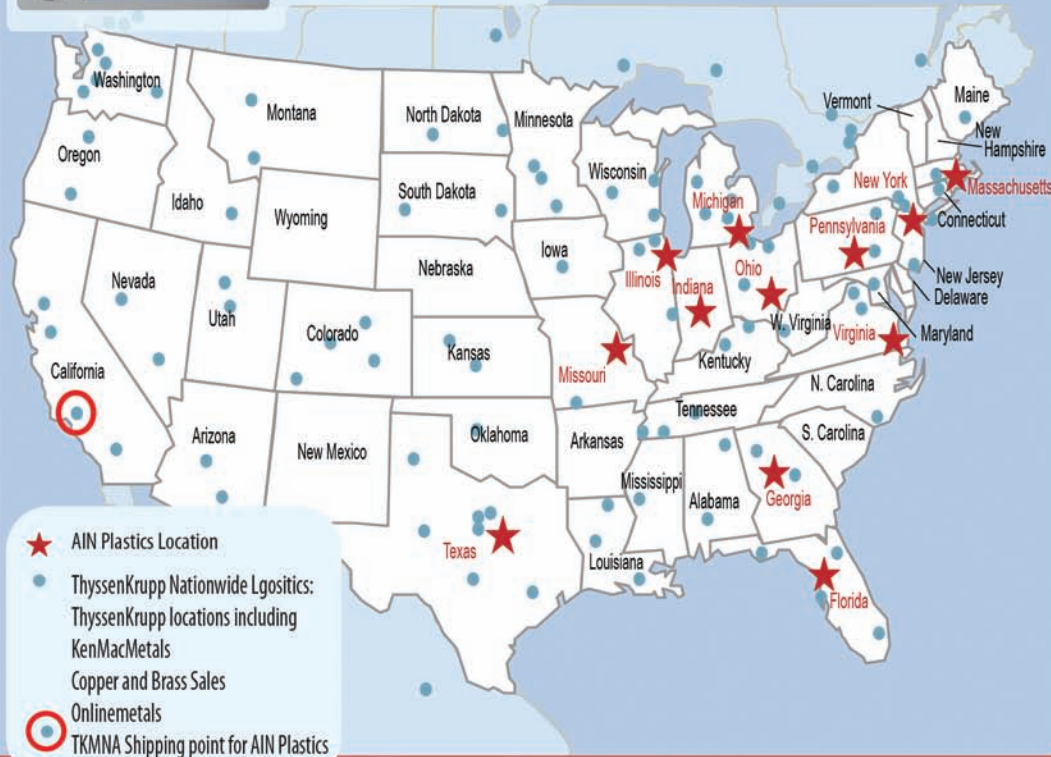


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ThyssenKrupp

ThyssenKrupp Materials NA
AIN Plastics Division



From AIN to Z, We Have the Materials and Services You Need

AIN Plastics is a leading distributor / fabricator of raw materials for the Power Distribution and Generation markets. AIN Plastics has it all, from GPO-3 and other low pressure laminates, to Standoff Insulators. We maintain extensive inventories at locations across North America, making shipping to you fast, easy and cost effective.

Sizes, Shapes, and Service!

- Mar-Bal Standoff Insulators
- Glastic Standoff Insulators
- GPO-3 Sheet, Angle, Channel
- Dogbone Rod and other Pultrusions
- SG-200, FHT Sheet
- GPO-1 TSF Sheet
- Application and machining assistance
- Custom cutting to close tolerances
- Full machining capabilities to provide finished parts
- Kitting, JIT, and other vendor managed inventory solutions

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877.246.7700
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ThyssenKrupp Materials NA, AIN Plastics Locations

Riverview, Florida
Kennesaw, Georgia
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Wentzville, Missouri
New York, New York

Columbus, Ohio
Lancaster, Pennsylvania
Grand Prairie, Texas
Virginia Beach, Virginia

STANDOFF INSULATORS

REFERENCE GUIDE



Investment, Brand Growth, and Strategic Alliance

Mar-Bal, Inc. is the largest manufacturer of BMC molded Standoff Insulators in North America with the industry's two leading brands, Glastic and Mar-Bal. In 2012, Mar-Bal and Röchling-Glastic entered into a strategic alliance for the long-term production of Electrical Standoff Insulators. Mar-Bal, Inc. and Röchling Glastic Composites have teamed up in material development, insulator design, manufacturing and distribution. The two companies' engineering groups collaborated with Underwriter's Laboratories (UL) to confirm the certification with regards to the UL File.

As part of the agreement, Mar-Bal, Inc. assumes the UL® Listing and the overall production management for the Glastic standoff insulators product line, as well as the customer service support of Röchling-Glastic insulator distribution customers.

For nearly a century, Mar-Bal and Glastic have brought their combined standoff insulator experience and innovation to the marketplace. From their UL certificates to their product and brand leadership to their reliability and dependability — why would you use anyone else?

There's no substitute
FOR
A SURE THING.

Sure you can buy a substitute, but are you getting what you think? Mar-Bal and Glastic combined has been making standoff insulators for nearly a **CENTURY**, and have a proven track record of safety and reliability. Can a substitute say that?

**WHY WOULD YOU
USE ANYONE ELSE?**



Mar-Bal is your **ONE-SOURCE** solutions provider for thermoset composites.
Need **STANDOFF INSULATORS** that are **RELIABLE** and **DEPENDABLE**?

The One-Source Solutions Provider
DESIGN | FORMULATE | COMPOUND | MOLD | FINISH
Thermoset Composites

OHIO PLANT
Chagrin Falls, OH

VIRGINIA PLANT
Dublin, VA

MISSOURI PLANT
Cuba, MO

R&D TECHNICAL CENTER
Chagrin Falls, OH

ASIA SALES OFFICE
Shanghai, China



mar-bal.com



THE LARGEST
MANUFACTURER
OF STANDOFF
INSULATORS IN
NORTH
AMERICA



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WE HAVE METRIC INSULATORS AVAILABLE

The History of Mar-Bal



Steven Balogh (L), Vice-President; Scott Balogh (R), President and CEO

Founded by Jim Balogh and headquartered in Chagrin Falls, Ohio, Mar-Bal is a compounder and molder of thermoset composite

products. Since 1970, Mar-Bal has engineered and manufactured quality, customized materials and parts. Mar-Bal serves the appliance, electrical and industrial marketplaces from its five facilities in North America and Asia.

Mar-Bal, an ISO 9001:2008 registered company, has a portfolio of brands and proprietary products, and continues to develop innovative products while maintaining a commitment to client satisfaction and total value.

The entrepreneurial spirit continues at Mar-Bal under the leadership of the second-generation-Balogh family.

Scott and Steven Balogh joined their father's company in the early 1990s and began growing the business through customer collaboration, engineering design, and investments in innovation. In 2007, Mar-Bal opened a Research and Development Technical Center in Chagrin Falls that enables the company to focus deeper in providing their customers with thermoset composite solutions — part design, specialized material formulations and customized automation.

The investments continued in 2011 with the addition of a PVD finishing line and adoption of Operational Excellence principles. And, in 2012, Mar-Bal and Röchling-Glastic entered into a strategic alliance for the long-term production of Electrical Standoff Insulators. Early 2013 saw the introduction of a new and innovative line of vanity tops branded under the name Baylux. Mar-Bal is clearly positioned to advance thermoset composites and provide their customers and partners a one-source solution.



About Standoff Insulators

All Mar-Bal Standoff Insulators are molded from a flame retardant and track-resistant glass reinforced thermoset polyester molding compound recognized for current carrying devices under UL Material Recognition Number E 80533 (N). They combine high

mechanical strength with high arc resistance and dielectric properties at elevated temperatures and humidity. These shatter-resistant insulators meet the most exacting standards for a variety of applications.

The One-Source Solutions Provider
DESIGN | FORMULATE | COMPOUND | MOLD | FINISH
Thermoset Composites

PANEL AND SWITCHBOARD INSULATORS

Physical & Electrical Properties

Tensile Strength (lbs.)	1200
Cantilever Strength (lbs.)	600
Compression Strength (lbs.).....	8000
Thread Stripping Torque (ft. lbs.)	10
Dielectric Strength (volts S.T.)	10000
Arc Resistance (sec. ASTM D495)	180+
UL subject 94 Flame Resistance	94 V-0
Water Absorption (% in 24 hrs. @ 23°c).....	0.15
Height Tolerance (in.)	±.015



PART #	SUGGEST INDOOR VOLTAGE	CARTON QTY.	UL FILE #	SHAPE	DIAMETER	HEIGHT	INSERT SIZE	TYPE
1100-A1	600	500	UL E84767	Hex	1-1/8	1	1/4-20 x 5/16	Aluminum
1118-A1	600	500	UL E84767	Hex	1-1/8	1-1/8	1/4-20 x 5/16	Aluminum
1125-A1	600	500	UL E84767	Hex	1-1/8	1-1/4	1/4-20 x 5/16	Aluminum
1125-A1X	600	500	UL E84767	Hex	1-1/8	1-1/4	1/4-20 x 5/16	Aluminum
R1100-A1	600	500	UL E84767	Round	1	1	1/4-20 x 5/16	Aluminum
R1125-A1	600	500	UL E84767	Round	1	1-1/4	1/4-20 x 5/16	Aluminum

- + All Insulators Listed Can Also Be Molded Using Mar-Bal High Track Resistant-Supertrack MB4000 Compound
- + Metric Insulators available upon request
- + 25 KV Insulator available upon request

ROUND 600 VOLT INSULATORS

Physical and Electrical Properties

Tensile Strength (lbs.)	2500-2700
Cantilever Strength (in. lbs.)	2500-3750
Compression Strength (lbs.).....	17000
Thread Stripping Torque (ft. lbs.)	30
Dielectric Strength (volts S.T.)	15000
Arc Resistance (sec. ASTM D495).....	180 +
Water Absorption (% in 24 hrs. @ 23°C).....	0.15
Height Tolerance (in.)	±.015
Creep Distance (in.).....	1/4" +Ht.
UL subject 94 Flame Resistance	94 V-0



PART #	SUGGEST INDOOR VOLTAGE	CARTON QTY.	UL FILE #	SHAPE	DIAMETER	HEIGHT	INSERT SIZE	TYPE
2137-A4	600	225	UL E84767	Round	1-3/4	1-3/8	3/8-16 x 3/8	Aluminum
2138-A4	600	300	UL E84767	Hex	1-3/4	1-3/8	3/8-16 x 3/8	Aluminum
R2137-A4	600	225	UL E84767	Round	1-3/4	1-3/8	3/8-16 x 3/8	Aluminum
R2137-S4	600	225	UL E84767	Round	1-3/4	1-3/8	3/8-16 x 3/8	Steel
R2137-A3	600	225	UL E84767	Round	1-3/4	1-3/8	5/16-18 x 3/8	Aluminum
R2137-S3	600	225	UL E84767	Round	1-3/4	1-3/8	5/16-18 x 3/8	Steel

- + All Insulators Listed Can Also Be Molded Using Mar-Bal High Track Resistant-Supertrack MB4000 Compound
- + Metric Insulators available upon request
- + 25 KV Insulator available upon request

ROUND 4000 SERIES INSULATORS

Physical and Electrical Properties

Tensile Strength (lbs.)	2500-2700
Cantilever Strength (in. lbs.)	2500-3750
Compression Strength (lbs.).....	17000
Thread Stripping Torque (ft. lbs.)	30
Dielectric Strength (volts S.T.)	15000
Arc Resistance (sec. ASTM D495).....	180 +
Water Absorption (% in 24 hrs. @ 23°c).....	0.15
Height Tolerance (in.)	±.015
Creep Distance (in.).....	1/4" +Ht.
UL subject 94 Flame Resistance	94 V-0



PART #	SUGGEST INDOOR VOLTAGE	CARTON QTY.	UL FILE #	SHAPE	DIAMETER	HEIGHT	INSERT SIZE	TYPE
R4150-A3	1500	200	UL E84767	Round	1-3/4	1-1/2	5/16-18 x 3/8	Aluminum
R4150-S3	1500	200	UL E84767	Round	1-3/4	1-1/2	5/16-18 x 3/8	Steel
R4150-A4	1500	200	UL E84767	Round	1-3/4	1-1/2	3/8-16 x 3/8	Aluminum
R4150-S4	1500	200	UL E84767	Round	1-3/4	1-1/2	3/8-16 x 3/8	Steel
R4162-A4	1600	175	UL E84767	Round	1-3/4		3/8-16 x 3/8	Aluminum
R4175-A3	2000	175	UL E84767	Round	1-3/4	1-3/4	5/16-18 x 3/8	Aluminum
R4175-A4	2000	175	UL E84767	Round	1-3/4	1-3/4	3/8-16 x 3/8	Aluminum
R4175-S4	2000	175	UL E84767	Round	1-3/4	1-3/4	3/8-16 x 3/8	Steel
R4187-A5	2000	175	UL E84767	Round	1-3/4	1-7/8	3/8-16 x 9/16	Aluminum
R4200-A3	2500	150	UL E84767	Round	1-3/4	2	5/16-18 x 3/8	Aluminum
R4200-A4	2500	150	UL E84767	Round	1-3/4	2	3/8-16 x 3/8	Aluminum
R4200-S4	2500	150	UL E84767	Round	1-3/4	2	3/8-16 x 3/8	Steel
R4200-A5	2500	150	UL E84767	Round	1-3/4	2	3/8-16 x 9/16	Aluminum
R4200-S5	2500	150	UL E84767	Round	1-3/4	2	3/8-16 x 9/16	Steel
R4225-A5	2700	150	UL E84767	Round	1-3/4	2-1/4	3/8-16 x 9/16	Aluminum

- + All Insulators Listed Can Also Be Molded Using Mar-Bal High Track Resistant-Supertrack MB4000 Compound
- + Metric Insulators available upon request
- + 25 KV Insulator available upon request

OCTAGON CENTER POST 4000 SERIES INSULATORS

Physical and Electrical Properties

Tensile Strength (lbs.)	3000-4500
Cantilever Strength (in. lbs.)	2400-5000
Compression Strength (lbs.).....	15000-18000
Thread Stripping Torque (ft. lbs.)	42-50
Dielectric Strength (volts S.T.)	15000-16000
Arc Resistance (sec. ASTM D495).....	180 +
Water Absorption (% in 24 hrs. @ 23°C).....	0.15
Height Tolerance (in.)	±.015
Creep Distance (in.).....	1/4" +Ht.
UL subject 94 Flame Resistance	94 V-0



PART #	SUGGEST INDOOR VOLTAGE	CARTON QTY.	UL FILE #	SHAPE	DIAMETER	HEIGHT	INSERT SIZE	TYPE
4150-S2	1500	169	UL E84767	Octagon	2	1-1/2	1/4-20 x 1/2	Steel
4150-A3	1500	169	UL E84767	Octagon	2	1-1/2	5/16-18 x 3/8	Aluminum
4150-S3	1500	169	UL E84767	Octagon	2	1-1/2	5/16-18 x 3/8	Steel
4150-A4	1500	169	UL E84767	Octagon	2	1-1/2	3/8-16 x 3/8	Aluminum
4150-S4	1500	169	UL E84767	Octagon	2	1-1/2	3/8-16 x 3/8	Steel
4175-A3	2000	144	UL E84767	Octagon	2	1-3/4	5/16-18 x 3/8	Aluminum
4175-A4	2000	144	UL E84767	Octagon	2	1-3/4	3/8-16 x 3/8	Aluminum
4175-S4	2000	144	UL E84767	Octagon	2	1-3/4	3/8-16 x 3/8	Steel
4175-S5	2000	144	UL E84767	Octagon	2	1-3/4	3/8-16 x 9/16	Steel
4175-A5	2000	144	UL E84767	Octagon	2	1-3/4	3/8-16 x 9/16	Aluminum
4200-A3	2500	133	UL E84767	Octagon	2	2	5/16-18 x 3/8	Aluminum
4200-A5	2500	133	UL E84767	Octagon	2	2	3/8-16 x 9/16	Aluminum
4200-S5	2500	133	UL E84767	Octagon	2	2	3/8-16 x 9/16	Steel
4200-A6	2500	133	UL E84767	Octagon	2	2	1/2-13 x 5/8	Aluminum
4200-S6	2500	133	UL E84767	Octagon	2	2	1/2-13 x 5/8	Steel
4225-A5	2700	108	UL E84767	Octagon	2	2-1/4	3/8-16 x 9/16	Aluminum
4225-S5	2700	108	UL E84767	Octagon	2	2-1/4	3/8-16 x 9/16	Steel
4225-A6	2700	108	UL E84767	Octagon	2	2-1/4	1/2-13 x 5/8	Aluminum
4225-S6 Red	2700	108	UL E84767	Octagon	2	2-1/4	1/2-13 x 5/8	Steel
4225-S6 Gray	2700	108	UL E84767	Octagon	2	2-1/4	1/2-13 x 5/8	Steel

+ All Insulators Listed Can Also Be Molded Using Mar-Bal High Track Resistant-Supertrack MB4000 Compound

+ Metric Insulators available upon request

+ 25 KV Insulator available upon request

OCTAGON CENTER POST 5000 SERIES INSULATORS

Physical and Electrical Properties

Tensile Strength (lbs.)	5000-5700
Cantilever Strength (in. lbs.)	5000-5600
Compression Strength (lbs.).....	23000-27000
Thread Stripping Torque (ft. lbs.)	42-50
Dielectric Strength (volts S.T.)	19000-21000
Arc Resistance (sec. ASTM D495).....	180 +
Water Absorption (% in 24 hrs. @ 23°c).....	0.15
Height Tolerance (in.)	±.015
Creep Distance (in.).....	5/16" + Ht.
UL subject 94 Flame Resistance	94 V-0



PART #	SUGGEST INDOOR VOLTAGE	CARTON QTY.	UL FILE #	SHAPE	DIAMETER	HEIGHT	INSERT SIZE	TYPE
5250-A5	3200	75	UL E84767	Octagon	2-1/2	2-1/2	3/8-16 x 9/16	Aluminum
5250-S5	3200	75	UL E84767	Octagon	2-1/2	2-1/2	3/8-16 x 9/16	Steel
5250-A6	3200	75	UL E84767	Octagon	2-1/2	2-1/2	1/2-13 x 5/8	Aluminum
5250-S6	3200	75	UL E84767	Octagon	2-1/2	2-1/2	1/2-13 x 5/8	Steel
5263-A6	3400	66	UL E84767	Octagon	2-1/2	2-5/8	1/2-13 x 5/8	Aluminum
5263-S6	3400	66	UL E84767	Octagon	2-1/2	2-5/8	1/2-13 x 5/8	Steel
5263-A8	3400	66	UL E84767	Octagon	2-1/2	2-5/8	5/8-11 x 3/4	Aluminum
5263-S8	3400	66	UL E84767	Octagon	2-1/2	2-5/8	5/8-11 x 3/4	Steel
5275-A5	3600	66	UL E84767	Octagon	2-1/2	2-3/4	3/8-16 x 9/16	Aluminum
5275-S5	3600	66	UL E84767	Octagon	2-1/2	2-3/4	3/8-16 x 9/16	Steel
5275-A6	3600	66	UL E84767	Octagon	2-1/2	2-3/4	1/2-13 x 5/8	Aluminum
5275-A8	3600	66	UL E84767	Octagon	2-1/2	2-3/4	5/8-11 x 3/4	Aluminum
5275-S8	3600	66	UL E84767	Octagon	2-1/2	2-3/4	5/8-11 x 3/4	Steel
5275-S10	3600	66	UL E84767	Octagon	2-1/2	2-3/4	3/8-16 x 5/8	Steel
5300-A5	4100	50	UL E84767	Octagon	2-1/2	3	3/8-16 x 9/16	Aluminum
5300-S5	4100	50	UL E84767	Octagon	2-1/2	3	3/8-16 x 9/16	Steel
5300-A6	4100	50	UL E84767	Octagon	2-1/2	3	1/2-13 x 5/8	Aluminum
5300-S6	4100	50	UL E84767	Octagon	2-1/2	3	1/2-13 x 5/8	Steel
5300-S8	4100	50	UL E84767	Octagon	2-1/2	3	5/8-11 x 3/4	Steel
5325-A5	4500	50	UL E84767	Octagon	2-1/2	3-1/4	3/8-16 x 9/16	Aluminum
5325-S5	4500	50	UL E84767	Octagon	2-1/2	3-1/4	3/8-16 x 9/16	Steel
5325-S10	4500	50	UL E84767	Octagon	2-1/2	3-1/4	3/8-16 x 5/8	Steel
5350-A5	5000	50	UL E84767	Octagon	2-1/2	3-1/2	3/8-16 x 9/16	Aluminum
5350-S5	5000	50	UL E84767	Octagon	2-1/2	3-1/2	3/8-16 x 9/16	Steel
5350-A6	5000	50	UL E84767	Octagon	2-1/2	3-1/2	1/2-13 x 5/8	Aluminum
5350-S10	5000	50	UL E84767	Octagon	2-1/2	3-1/2	1/2-13 x 5/8	Steel
5375-A5	5000	50	UL E84767	Octagon	2-1/2	3-3/4	3/8-16 x 9/16	Aluminum
5375-S8	5000	50	UL E84767	Octagon	2-1/2	3-3/4	5/8-11 x 3/4	Steel
5375-S10	5000	50	UL E84767	Octagon	2-1/2	3-3/4	3/8-16 x 5/8	Steel

- + All Insulators Listed Can Also Be Molded Using Mar-Bal High Track Resistant-Supertrack MB4000 Compound
- + Metric Insulators available upon request
- + 25 KV Insulator available upon request

APPARATUS STANDOFF INSULATORS

Physical and Electrical Properties

Tensile Strength (lbs.)	6000
Cantilever Strength (in. lbs.)	5000
Compression Strength (lbs.).....	50000
Thread Stripping Torque (ft. lbs.)	30
Dielectric Strength (volts S.T.)	15000
Arc Resistance (sec. ASTM D495).....	180 +
Water Absorption (% in 24 hrs. @ 23°C).....	0.15
Creep Distance (in.).....	3-1/4
UL subject 94 Flame Resistance	94 V-0



PART #	SUGGEST INDOOR VOLTAGE	CARTON QTY.	UL FILE #	SHAPE	DIAMETER	HEIGHT	INSERT SIZE	TYPE
3213-A5	2500	75	UL E84767	Round	2-1/2	2-1/8	3/8-16 x 9/16	Aluminum
3213-S5	2500	75	UL E84767	Round	2-1/2	2-1/8	3/8-16 x 9/16	Steel
3213-A6	2500	75	UL E84767	Round	2-1/2	2-1/8	1/2-13 x 5/8	Aluminum
3213-S6	2500	75	UL E84767	Round	2-1/2	2-1/8	1/2-13 x 5/8	Steel
3213-S8	2500	75	UL E84767	Round	2-1/2	2-1/8	5/8-11 x 3/4	Steel

- + All Insulators Listed Can Also Be Molded Using Mar-Bal High Track Resistant-Supertrack MB4000 Compound
- + Metric Insulators available upon request
- + 25 KV Insulator available upon request

13.5 KV INSULATORS

Physical and Electrical Properties

Tensile Strength (lbs.)	3000
Cantilever Strength (in. lbs.)	3200
Compression Strength (lbs.).....	30000
Thread Stripping Torque (ft. lbs.)	55
Dielectric Strength (volts S.T.)	15000
Arc Resistance (sec. ASTM D495).....	180 +
Water Absorption (% in 24 hrs. @ 23°C).....	0.15
Height Tolerance (in.)	±.015
Creep Distance (in.).....	10
UL subject 94 Flame Resistance	94 V-0



PART #	SUGGEST INDOOR VOLTAGE	CARTON QTY.	UL FILE #	SHAPE	DIAMETER	HEIGHT	INSERT SIZE	TYPE
6500-S10	7500	20	UL E84767	Round	2-3/4	5	3/8-16 x 5/8	Steel
6500-S6	7500	20	UL E84767	Round	2-3/4	5	1/2-13 x 5/8	Steel
6375-S6	13500	20	UL E84767	Round	2-3/4	6	1/2-13 x 5/8	Steel
6375-S10	13500	20	UL E84767	Round	2-3/4	6	3/8-16 x 5/8	Steel
7000-S10	13500	20	UL E84767	Round	2-3/4	7	3/8-16 x 5/8	Steel

- + All Insulators Listed Can Also Be Molded Using Mar-Bal High Track Resistant-Supertrack MB4000 Compound
- + Metric Insulators available upon request
- + 25 KV Insulator available upon request

5 KV INSULATORS

Physical and Electrical Properties

Tensile Strength (lbs.)	4500
Cantilever Strength (in. lbs.)	2500
Compression Strength (lbs.).....	22000
Thread Stripping Torque (ft. lbs.)	30
Arc Resistance (sec. ASTM D495).....	180 +
Water Absorption (% in 24 hrs. @ 23°C).....	0.15
UL subject 94 Flame Resistance	94 V-0
3/8-16x.8 Deep Steel Inserts	N/A
4-On Top	N/A
2,4, or 5-On Bottom.....	N/A



PART #	SUGGEST INDOOR VOLTAGE	CARTON QTY.	UL FILE #	SHAPE	DIAMETER	HEIGHT	INSERT SIZE	TYPE
6350-S10 4x2 Red	5000	18	UL E84767	Round	3-3/4	3-1/2	3/8-16 x 5/8	Steel
6350-S10 4x2 Gray	5000	18	UL E84767	Round	3-3/4	3-1/2	3/8-16 x 5/8	Steel
6350-S10 4x4 Gray	5000	18	UL E84767	Round	3-3/4	3-1/2	3/8-16 x 5/8	Steel
6350-S10 4x4 Red	5000	18	UL E84767	Round	3-3/4	3-1/2	3/8-16 x 5/8	Steel
6350-S6/S10 4x4x1 Red	5000	18	UL E84767	Round	3-3/4	3-1/2	Call For Info.	Steel
6350-S6/S10 4x4x1 Gray	5000	18	UL E84767	Round	3-3/4	3-1/2	Call For Info.	Steel

- + All Insulators Listed Can Also Be Molded Using Mar-Bal High Track Resistant-Supertrack MB4000 Compound
- + Metric Insulators available upon request
- + 25 KV Insulator available upon request

15 KV INSULATORS

Physical and Electrical Properties

Tensile Strength (lbs.)	4800
Cantilever Strength (in. lbs)	1500
Compression Strength (lbs.).....	25000
Thread Stripping Torque (ft. lbs.)	30
Arc Resistance (sec. ASTM D495).....	180 +
Water Absorption (% in 24 hrs. @ 23°C).....	0.15
UL subject 94 Flame Resistance	94 V-0
3/8-16x.8 Deep Steel Inserts	N/A
4-On Top	N/A
2,4, or 5-On Bottom.....	N/A



PART #	SUGGEST INDOOR VOLTAGE	CARTON QTY.	UL FILE #	SHAPE	DIAMETER	HEIGHT	INSERT SIZE	TYPE
6600-S10 4x2 Red	15000	9	UL E84767	Round	3-3/4	6	3/8-16 x 5/8	Steel
6600-S10 4x2 Gray	15000	9	UL E84767	Round	3-3/4	6	3/8-16 x 5/8	Steel
6600-S10 4x4 Red	15000	9	UL E84767	Round	3-3/4	6	3/8-16 x 5/8	Steel
6600-S10 4x4 Gray	15000	9	UL E84767	Round	3-3/4	6	3/8-16 x 5/8	Steel
6600-S10 4x4 R20 Red	15000	9	UL E84767	Round	3-3/4	6	3/8-16 x 5/8	Steel
6600-S10/81 4x4 Red	15000	9	UL E84767	Round	3-3/4	6	Call For Info.	Steel
6600-S10/81 4x4x1 Red	15000	9	UL E84767	Round	3-3/4	6	Call For Info.	Steel

- + All Insulators Listed Can Also Be Molded Using Mar-Bal High Track Resistant-Supertrack MB4000 Compound
- + Metric Insulators available upon request
- + 25 KV Insulator available upon request

SUPERTRACK MB-4000

Developed for low and medium voltage system applications where higher resistance is required, the new material, Supertrack MB4000, was originally developed for standoff insulators and as a replacement for **porcelain-type insulators** in certain low and medium voltage (5KV up to 27KV) indoor applications. The insulators can also be used in outdoor, enclosed applications.

The Supertrack MB4000 material has been subjected to inclined plane track resistance testing in accordance with ASTM D-2303, tracking less than 1 inch after 1500 minutes at 2500 volts. The insulators produced from the Supertrack MB4000 material have also undergone and have passed short circuit testing at the 5KV and 15KV level. This material is UL listed under file number E80533, dated Oct. 29, 1999. The material has been used in standoff insulator applications since 1999 without report of any failures in bus bar support or standoff insulator use.



NEW!

2137 STANDOFF INSULATOR

Mar-Bal invests in multi-cavity injection tooling.

Price savings delivered to key customers.

Key Dates

Built a NEW Injection Tool 3Q 2010

UL Approval February 2011

Stock Available March 1, 2011



Samples available upon request.

*UL Listed - Tested to UL891



CROSS REFERENCE GUIDE

MAR-BAL, INC. PART #	HEIGHT	GLASTIC CORP. PART #	PENN COMPRESSION PART #
1100-A1	1-1/8"	2165-A	AR5612-20A
1125-A1	1 1/4"	2165-1B	AR 5612-20B
2137-A4	1 3/8"	1603-2A	NT3061-16A
R-2137-A4/S4	1 3/8"	1603-1B	NT 3061-16A
2138-A4	1 3/8"	2516-1A	AR 6152-16A
3213-A5/S5	2 1/8"	1461-1A	AR 1641-16A
3213-A6/S6	2 1/8"	1461-1B	AR 1641-13A
3213-S8	2 1/8"	1461-1C	AR 1641-11A
4150-A2/S2	1 1/2"	2015-1A	AR 3061-20B
4150-A3/S3	1 1/3"	2015-2A	AR 3061-16B
4150-A4/S4	1 1/2"	2015-3A	NONE
4175-A3/S3	1 3/4"	2015-2B	AR 3061-16C
4175-A4/S4	1 3/4"	2015-3B	NONE
4187-A5	1 7/8"	NONE	NONE
4200-A3/S3	2"	2015-2C	AR 3061-16D
4200-A5/S5	2"	2015-3C	AR 3061-13D

CONTINUED ON BACK

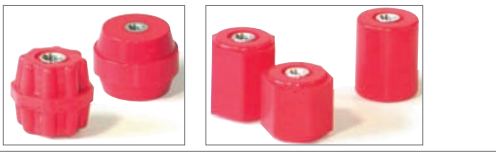


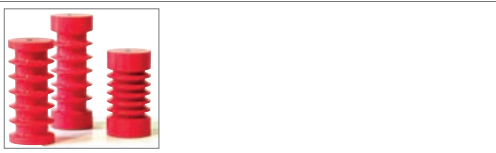
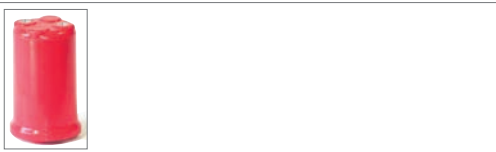
MAR-BAL, INC. PART #	HEIGHT	GLASTIC CORP. PART #	PENN COMPRESSION PART #
4200-A6/S6	2"	2015-4C	NONE
4225-A5/S5	2 1/4"	2015-3D	AR 3061-16E
4225-A6/S6	2 1/4"	2015-4D	AR 3061-13E
5250-A5/S5	2 1/2"	1872-1A	AR 2781-16A
5250-A6/S6	2 1/2"	1872-2A	AR 2781-13A
5263-A8/S8	2 5/8"	1872-3F	NONE
5275-A5/S5	2 3/4"	1872-1B	AR 2781-16B
5275-A6	2 3/4"	1872-2B	AR 2781-13B
5300-A5/S5	3"	1872-1C	AR 2781-16C
5300-A6/S6	3"	1872-2C	AR 2781-13C
5325-A5/S5	3 1/4"	1872-1D	AR 2781-16D
5350-A5/S5	3 1/2"	1872-1E	AR 2781-16E
5350-A6/S6	3 1/2"	1872-2E	AR 2781-13E
6350-S10	3 1/2" - 5KV	1642-10E	NT 5404-16A
6375-S10	13.5KV	NONE	NONE
6600-S10	6"-15KV	2450-11	NT 5420-16A
7000-S10	13.5KV	NONE	NONE

A = ALUMINUM INSERT

S = STEEL INSERTS

R = ROUND

VOLTAGE RATING GUIDE

<p>UP TO 600 VOLT RATING</p>	<p>Panel & Switchboard Insulators Round 600 Volt Insulators</p>	
<p>1500-2700 VOLT RATING</p>	<p>Round 4000 Series Insulators Octagon Center Post Apparatus Standoff Insulators</p>	
<p>3200-5000 VOLT RATING</p>	<p>Octagon Center Post 5000 Series 5 KV Insulators</p>	
<p>7500-13,500 VOLT RATING</p>	<p>13.5 KV Insulators</p>	
<p>15,000 VOLT RATING</p>	<p>15 KV Insulators</p>	

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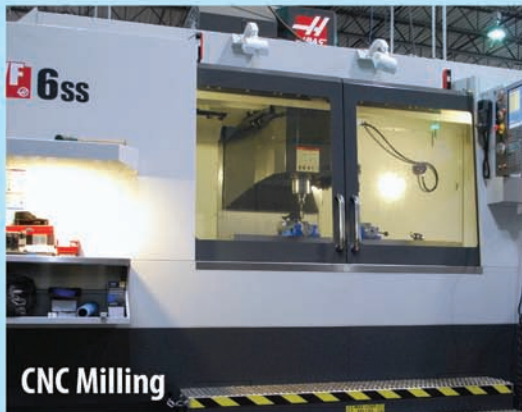
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