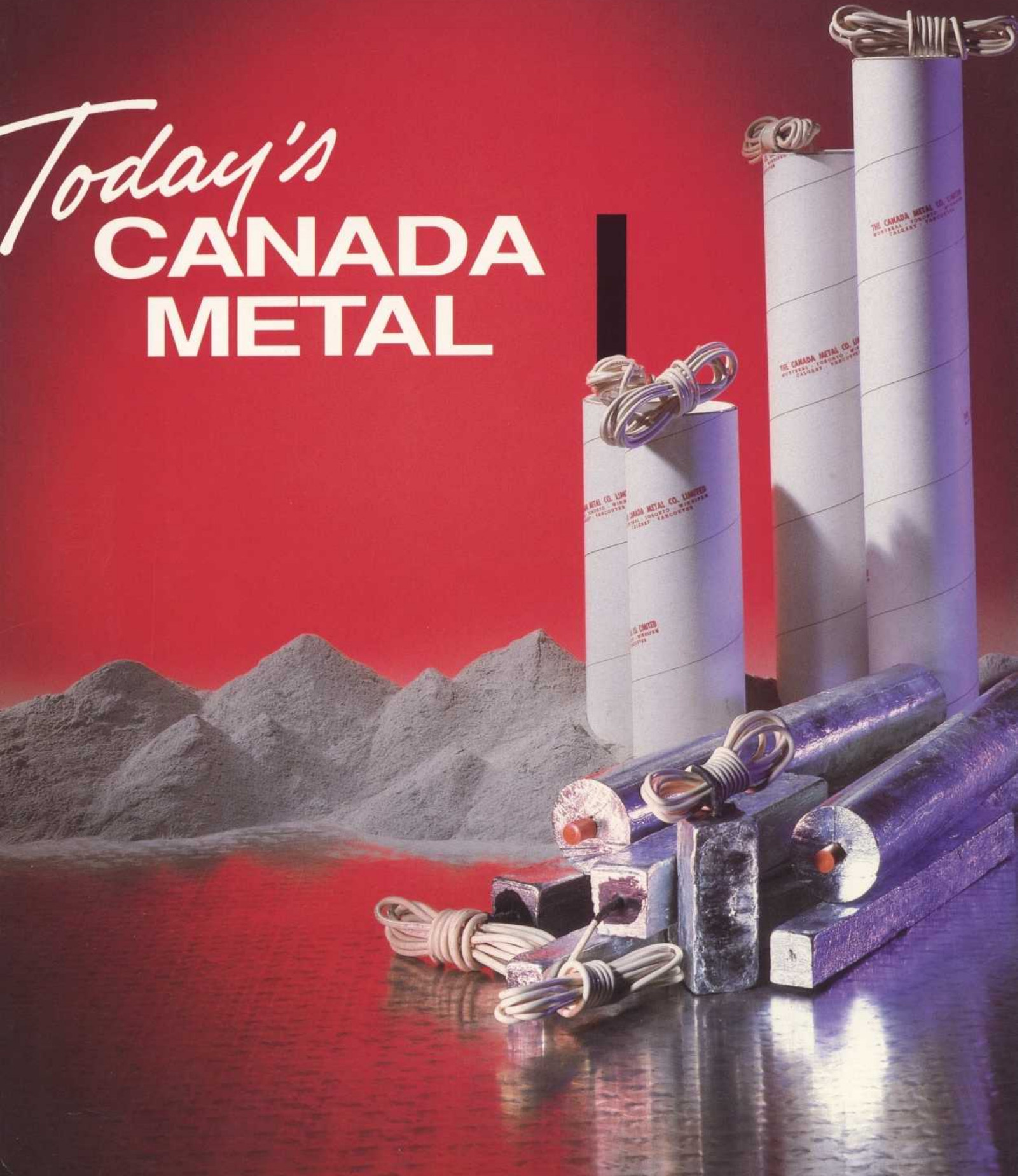


Today's
**CANADA
METAL**



Canada Metal

Today's Canada Metal, a leading producer of both Zinc and Aluminum Galvanic Anodes, offers superior quality metal anodes for a wide range of cathodic protection applications. We have over four decades of experience in the manufacture of Martyr Anodes for Marine, Petroleum, and Waterwork applications. Canada Metal manufactures and distributes Martyr anodes through branch offices in Vancouver, Calgary, Winnipeg, Toronto and Montreal.

Martyr Alloys

Both Martyr IA (zinc) and Martyr II (aluminum) anodes are made from high grade primary zinc and aluminum metal.

Martyr IA zinc anodes conform in composition to ASTM B 418-88 TYPE II. Typical anode chemistries are noted below.

ELEMENT	MARTYR IA-ZINC	MARTYR II-ALUMINUM
ALUMINUM	0.002% max.	Remainder
COPPER	0.002% max.	0.002% max.
TIN	0.001 % max.	-
CADMIUM	0.003% max.	-
IRON	0.003% max.	0.080% max.
LEAD	0.003% max.	-
SILICON	-	0.050% max.
OTHERS	0.010% max. total	0.020% max.
ZINC	Remainder	3.000 - 6.000%

Martyr Packaging Specifications

Martyr packaged anodes are packed in a rugged water permeable cardboard tube having a minimum wall thickness of 2.3 mm. Positioning devices have been designed to ensure a minimum distance of 25 mm between any surface of the anode and the cardboard tube. This feature also ensures the anode will be kept centered during transportation and handling of the anode before installation.

Backfill material is a low resistivity (45 ohm-cm maximum) gypsum/ bentonite/ sodium sulphate mixture with the following nominal composition:

Ground Hydrated Gypsum 75 - 77%

Powdered Wyoming bentonite 15 - 20%

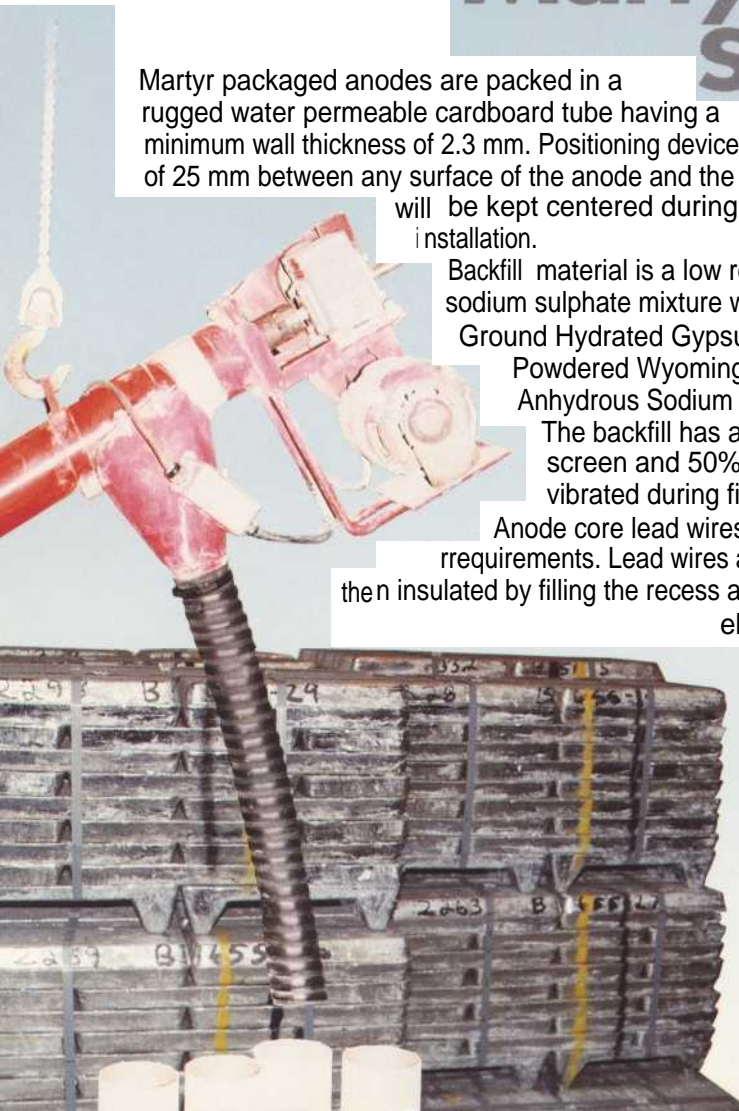
Anhydrous Sodium Sulphate 5 - 8%

The backfill has a grain size so that 100% passes through a 20 mesh screen and 50% is retained on a 100 mesh screen. The backfill is vibrated during final packaging to ensure complete coverage.

Anode core lead wires are available in various materials to meet customer requirements. Lead wires are silver soldered to the 1/8" steel core wire and are then insulated by filling the recess and any voids in the lead wire core connection with an electrical potting compound.

Engineering

Corrosion problems vary and are influenced by a wide range of factors. Detailed surveys of corrosion protection requirements using field survey services may be needed to determine specific protection requirements. Canada Metal's variety of anode types and styles provides a complete range of products for specific applications. Custom shapes and sizes can be designed for almost any application.



Canada Metal's Quality Control

Canada Metal's total Quality Program guarantees consistently reliable products through Chemistry, Production Control and Product Testing and Certification.

Chemistry

Chemical composition of metal is determined using the industry's most sophisticated computer controlled atomic spectrograph. Samples can be taken and analyzed at various points in the production process:

1. Prior to Casting
Primary metal is used which ensures low level impurity levels specified are met.
2. During Casting
The alloy is checked to insure optimum chemistry for anode efficiency.
3. After Casting
Test samples made during pouring are analyzed to insure chemistry integrity.

Production Control

Casting parameters are continually monitored to control production variables.

Anodes are weighed as the casting process is complete. Anodes that do not meet minimum weight requirements are rejected.

Anodes are physically inspected for excessive shrink cavities, core position and physical appearance to insure the highest quality possible.

Statistical sampling techniques are used to continually optimize anode production processes.

Product Testing

Canada Metal's anodes are tested to determine electrical efficiency and current capacity. This testing is intended to be used for quality assurance by Canada Metal and end users. Long term

field performance properties may not be identical to property measurements obtained using laboratory tests.

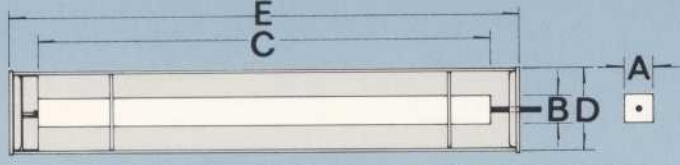


Canada Metal believes the above information and recommendations to be accurate and reliable and products mentioned reasonably fit for recommended purposes. However, as users conditions are not within its control, seller does not guarantee results for use of such products or other information herein, no warranty, express or implied, is given.

MARTYR IA* ZINC PACKAGED ANODES - SPECIFICATION AND SIZES AVAILABLE

ANODE SIZE	WGT. BARE	PKG'D WGT.	NOMINAL BARE DIMENSIONS			PKG'D DIMENSIONS		ANODE SHAPE
			A	B	C	D	E	
3 Pound	3 lb	7 lb	1 7/16"	1 1/2"	6"	4 1/4"	9"	Square
5 Pound	5 lb	13 lb	1 7/16"	1 1/2"	10"	4 1/4"	13 1/2"	Square
6 Pound	6 lb	15 lb	1 7/16"	1 1/2"	12"	4 1/4"	15"	Square
9 Pound	9 lb	22 lb	1 7/16"	1 1/2"	18"	4 1/4"	21"	Square
12 Pound	12 lb	29 lb	1 7/16"	1 1/2"	24"	4 1/4"	27"	Square
17 Pound	17 lb	41 lb	1 7/16"	1 1/2"	34"	4 1/4"	37"	Square
24 Pound	24 lb	56 lb	1 7/16"	1 1/2"	48"	4 1/4"	51"	Square
36 Pound	36 lb	69 lb	2 1/8"	2"	37"	4 3/4"	42 1/2"	Square

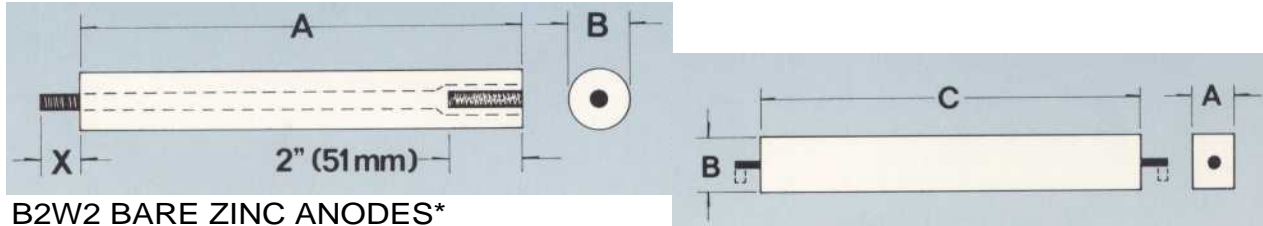
*ASTM B 418-88 TYPE II



COMMERCIAL HEATER TREATER ANODES

ZINC ANODES			ALUMINUM ANODES			MOUNTING	NOMINAL DIMENSIONS		
TYPE NUMBER	NOM. WGT.		TYPE NUMBER	NOM. WGT.			A-LENGTH IN (MM)	B-DIAMETER IN (MM)	X-DIMEN IN
	LBS	(KG)		LBS	(KG)				
Treater Z321	39.0	(17.7)	Treater 321	16.5	(7.5)	Threaded	21.5 (546)	3.0 (76)	1.0, 1.5
Treater Z321A	39.0	(17.7)	Treater 321A	16.5	(7.5)	Threaded	21.5 (546)	3.0 (76)	4.9
Treater Z330	56.0	(25.4)	Treater 330	23.5	(10.7)	Threaded	30.0 (762)	3.0 (76)	1.0, 1.5
Treater Z330A	56.0	(25.4)	Treater 330A	23.5	(10.7)	Threaded	30.0 (762)	3.0 (76)	4.0

1. Types 321 & 321 A use .625" NF rod. Types 330 & 330A use .75" rod.
Other rod sizes and extended lengths may be specified by purchaser.



B2W2 BARE ZINC ANODES*

ANODE SIZE	NOMINAL BARE DIMENSIONS			ANODE SHAPE
	A	B	C	
2 lb	2"	2"	2"	Square
3 lb	2"	2"	3"	Square
5 lb	2"	2"	5"	Square
7 lb	2"	2"	7"	Square
9 lb	2"	2"	9"	Square
12 lb	2"	2"	12"	Square
17 lb	2"	2"	17"	Square
18 lb	2"	2"	18"	Square
20 lb	2"	2"	20"	Square
24 lb	2"	2"	24"	Square
30 lb	2"	2"	30"	Square
36 lb	2"	2"	36"	Square
60 lb	2"	2"	60"	Square
96 lb	2"	2"	96"	Square

*ASTM B 418-88 TYPE II

**CANADA
METAL**

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