

Belmont

METALS INC.

330 Belmont Avenue Brooklyn, N.Y. 11207

(718) 342-4900 FAX: (718) 342-0175

DATA SHEET

CADMIUM SHEET

PHYSICAL AND MECHANICAL PROPERTIES

ATOMIC NUMBER	48
ATOMIC WEIGHT	112.41
BOILING POINT	767°C
CRYSTAL STRUCTURE	HEXAGONAL (CLOSE PACKED)
DENSITY (20°C)	8.6 G/CC
WEIGHT PER CUBIC INCH-WROUGHT	.3132 LBS.
ELECTRICAL RESISTIVITY (0°C)	6.83 MICROHM/CM
INDEX OF REFRACTION (6300 ANGSTROM)	1.13
LATENT HEAT OF FUSION	13.2 CAL/G
LATENT HEAT VAPORIZATION	286.4 CAL/G
THERMAL CONDUCTIVITY AT 20°C	0.22 CAL/CM2/CM/C°/SEC
LINEAR COEFFICIENT OF THERMAL EXPANSION (PER °C)	29.8 MICRO INCHES PER INCH AT 25°C
TENSILE STRENGTH	10,000 PSI
ELONGATION (% IN 1 INCH)	50%
BRINELL HARDNESS	21
MODULUS OF ELASTICITY	8,000,00 PSI
MELTING POINT	320°C
STABLE ISOTOPES (106,108, 110,111,112,113, 114,116)	8
THERMAL NEUTRON CROSS SECTIONS (2200M/S)	
ABSORPTION	2860 BARNES
SCATTERING	7 PLUS/MINUS 1BARNES
SPECIFIC HEAT (AT 25°C)	0.055 GAL/G/C°
SPECIFIC VOLUME (AT 20°C)	0.1156 CC/G
VALENCE	2

CHEMICAL CONTENT

CADMIUM 99.5% MINIMUM

IMPURITIES:

	<u>TYPICAL</u>	<u>MAXIMUM</u>		<u>TYPICAL</u>	<u>MAXIMUM</u>
AG	.002	0.01	SB	<.001	0.001
AS	<.001	0.003	SN	.001	0.01
CU	<.001	<0.015	TI	<.001	0.003
PB	.003	0.025	CD	99.97	-----

REF. SPECIFICATIONS ASTM B440, QQ-A-671A

Belmont: The Non Ferrous Specialists
For maximum variety in non ferrous metals, alloys, formulations, and shapes.
Custom shapes and compositions available.

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STOCK SIZES:

<u>THICKNESS</u>	<u>L</u>	<u>W</u>
.020	17 ½"	x 36"
.032"	17 ½"	x 36"
.045"	17 ½"	x 36"
.062"	17 ½"	x 36"

NOTE: STOCK SHEETS ARE SOLD AS FULL SHEETS ONLY.
ALL OTHER SIZES ARE PRODUCED TO ORDER (MINIMUM ORDERS OF 100 LBS.
PER SIZE FOR SPECIALS).

ROLLING TOLERANCE ON THICKNESS – PLUS OR MINUS .003

WEIGHT PER SQUARE FOOT

<u>THICKNESS</u> <u>INCHES</u>	<u>POUNDS</u> <u>SQ. FT.</u>
.00025	0.01128
.001	0.04510
.005	0.2255
.010	0.4510
.012	0.5412
.014	0.6314
.016 (1/64")	0.7216
.020	0.902
.032 (1/32")	1.443
.040 (1mm)	1.804
.062 (1/16")	2.80
.100	4.51
.250 (1/4")	11.28
.500 (1/2")	22.55
1.000	45.10

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