

ELKONITE® BAR STOCK

TYPICAL PROPERTIES OF ELKONITE® MATERIALS
(See CMW Inc. Catalog Series 200)

Elkonite® Material	Composition % by Weight	Density		Electrical		Theoretical		Hardness (Rockwell)	Modulus of Rupture In Bending		ASTM Specification
		g/cm ³ (Mg/m ³)	lb/in ³	Conductivity % IACS	Resistivity (n-ohm-m)	Thermal Conductivity Btu-h ⁻¹ -ft ⁻¹ -F ⁻¹	Conductivity (W-m ⁻¹ -K ⁻¹)		psi	(MPa)	
1W3	55W:45Cu	12.50	.452	53	(32.5)	180	(310)	77HRB	110.000	(758)	B702
3W3	68W:32Cu	13.93	.503	50	(34.5)	160	(280)	90HRB	130.000	(896)	B702
5W3	70W:30Cu	14.18	.512	48	(35.9)	160	(280)	95 HRB	140.000	(965)	B702
10W3	75W:25Cu	14.84	.536	45	(38.3)	150	(260)	98 HRB	150.000	(1030)	B702
10W53	75W:25Cu*	14.79	.534	28	(61.6)	85	(150)	109 HRB	200.000	(1380)	B702
30W3	80W:20Cu	15.56	.562	41	(42.1)	145	(250)	103 HRB	170.000	(1170)	B702
TC5	50WC:50Cu	11.26	.408	45	(38.3)	170	(290)	94 HRB	160.000	(1100)	-
TC10	56WC:44Cu	11.64	.421	42	(41.0)	160	(280)	100 HRB	180.000	(1240)	-
TC20	70WC:30Cu	12.65	.457	30	(57.5)	140	(240)	37 HRC	200.000	(1380)	-

*Cu Alloy 10W53 FULLY HEAT TREATED

ELKONITE® 10W3 ROUND BARS—8 INCH LENGTH

FINISHED DIAMETER	PART NUMBER	FINISHED DIAMETER	PART NUMBER
1/8	15-140200-64	3/4	15-141200-64
3/16	15-140300-64	7/8	15-141400-64
1/4	15-140400-64	1	15-141600-64
5/16	15-140500-64	1-1/8	15-141800-64
3/8	15-140600-64	1-1/4	15-142000-64
7/16	15-140700-64	1-3/8	15-142200-64
1/2	15-140800-64	1-1/2	15-142400-64
9/16	15-140900-64	1-3/4	15-142800-64
5/8	15-141000-64	2	15-143200-64

ELKONITE® 10W3 RECTANGULAR BARS—8 INCH LENGTH

SIZE-INCHES			SIZE-INCHES			SIZE-INCHES				
THICK	WIDTH	PART NUMBER	THICK	WIDTH	PART NUMBER	THICK	WIDTH	PART NUMBER		
1/8	1/8	15-140202-64	5/16	5/16	15-140505-64	1/2	1-1/2	15-142408-64		
	1/4	15-140402-64		3/8	15-140605-64		2	15-143208-64		
	5/16	15-140502-64		1/2	15-140805-64		4	15-146408-64		
	3/8	15-140602-64		5/8	15-141005-64	5/8	5/8	15-141010-64		
	1/2	15-140802-64		3/4	15-141205-64		3/4	15-141210-64		
	5/8	15-141002-64		1	15-141605-64		1	15-141610-64		
	3/4	15-141202-64		1-1/4	15-142005-64		1-1/4	15-142010-64		
	1	15-141602-64		1-1/2	15-142405-64	1-1/2	15-142410-64	3/4	3/4	15-141212-64
	1-1/4	15-142002-64		2	15-143205-64	2	15-143210-64		1	15-141612-64
	1-1/2	15-142402-64		4	15-146405-64	4	15-146410-64		1-1/4	15-142012-64
	2	15-143202-64		3/8	3/8	15-140606-64	1-1/2		15-143212-64	1-1/2
	4	15-146402-64			1/2	15-140806-64	2	15-143216-64	2	15-143216-64
	1/4	3/4			15-141203-64	5/8	15-141006-64	4	15-146412-64	4
1/4		15-140404-64	3/4		15-141206-64	1	1	15-141616-64		
5/16		15-140504-64	7/8	15-141406-64	1-1/4		15-142016-64			
3/8		15-140604-64	1	15-141606-64	1-1/2		15-142416-64			
1/2		15-140804-64	1-1/4	15-142006-64	2		15-143216-64			
5/8		15-141004-64	1-1/2	15-142406-64	4	15-146416-64	3/4	3/4	15-141212-64	
3/4		15-141204-64	2	15-143206-64	1	15-141616-64		1	15-141616-64	
1		15-141604-64	4	15-146406-64	1-1/2	15-142416-64		1-1/2	15-142416-64	
1-1/4		15-142004-64	1/2	5/8	15-141008-64	2		15-143216-64	2	15-143216-64
1-1/2		15-142404-64		3/4	15-141208-64	4	15-146416-64	1-1/4	15-142020-64	
2		15-143204-64		1	15-141608-64	1-1/4	1-1/4	15-142020-64		
4		15-146404-64		1-1/4	15-142008-64		2	15-143232-64		

*Contact Factory For Additional Sizes