

Conductivity and Resistivity Values for Magnesium & Alloys

Material	Conductivity		Resistivity	Reference	Notes
	(% IACS)	(Siemens/m)	(Ohm-m)	(See Endnotes)	
Magnesium Alloys (Wrought)					
AZ10A	26.94		6.400E-08	MHASM2	conductivity converted from resistivity
AZ31B, AZ31C	18.50		9.200E-08	MHASM2	
AZ61A	11.60		1.250E-07	MHASM2	
AZ80A	10.60		1.450E-07	MHASM2	
HK31A-H24	28.26		6.100E-08	MHASM2	conductivity converted from resistivity
HK31A-O	28.74		6.000E-08	MHASM2	conductivity converted from resistivity
HM21A-H24	33.16		5.200E-08	MHASM2	conductivity converted from resistivity
HM21A-O	34.48		5.000E-08	MHASM2	conductivity converted from resistivity
HM31A-F	26.00		6.600E-08	MHASM2	
M1A	34.50		5.000E-08	MHASM2	
ZC71	31.93		5.400E-08	MHASM2	conductivity converted from resistivity
ZK60A-F	29.00		5.945E-08	MHASM2	resistivity converted from conductivity
ZK60A-T5	30.00		5.747E-08	MHASM2	resistivity converted from conductivity
Magnesium Alloys (Cast)					
Pure	38.60	2.239E+07	4.467E-08	CSNDT	
Magnesium Alloys (Cast)	15.00	8.700E+06	1.149E-07	CSNDT	
AZ80BTA	10.80	6.264E+06	1.596E-07	CSNDT	
A2 80	14.60	8.468E+06	1.181E-07	CSNDT	
A231	17.20	9.976E+06	1.002E-07	CSNDT	
A251	12.80	7.424E+06	1.347E-07	CSNDT	
A261	12.30	7.134E+06	1.402E-07	CSNDT	
T454	12.50	7.250E+06	1.379E-07	CSNDT	
AM100A-F	11.50		1.500E-07	MHASM2	
AM100A-T4	9.90		1.750E-07	MHASM2	
AM110A-T6	12.30		1.400E-07	MHASM2	
AZ63A-F	15.00		1.150E-07	MHASM2	
AZ63A-T4	12.30		1.400E-07	MHASM2	
AZ63A-T5	13.80		1.250E-07	MHASM2	
AZ81A	12.00		1.300E-08	MHASM2	
AZ91A-F	10.10		1.700E-07	MHASM2	
AZ91C-F, AZ91E-F	11.50		1.500E-07	MHASM2	
AZ91C-T4, AZ91E-T4	9.90		1.750E-07	MHASM2	
AZ91C-T6, AZ91E-T6	11.20		1.515E-07	MHASM2	
AZ92A-F	12.30		1.400E-07	MHASM2	
AZ92A-T4	10.50		1.650E-07	MHASM2	

AZ92A-T6	12.30		1.400E-07	MHASM2	
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EQ21	25.20		6.850E-08	MHASM2	
EZ33A	25.00		7.000E-08	MHASM2	
HK31A-T6	22.00		7.700E-08	MHASM2	
HK31A-H24	28.26		6.100E-08	MHASM2	conductivity converted from resistivity
HK31A-O	28.74		6.000E-08	MHASM2	conductivity converted from resistivity
HZ32A	26.50		9.500E-08	MHASM2	
K1A	30.25		5.700E-08	MHASM2	conductivity converted from resistivity
QE22A	25.20		6.850E-08	MHASM2	
QH21A	25.17		6.850E-08	MHASM2	conductivity converted from resistivity
WE43	11.65	6.800E+06	1.480E-07	MHASM2	conductivity (IACS) converted from resistivity
WE54	9.97	5.800E+06	1.730E-07	MHASM2	conductivity (IACS) converted from resistivity
ZC63	31.93		5.400E-08	MHASM2	conductivity converted from resistivity
ZE41A-T5	28.74		6.000E-08	MHASM2	conductivity converted from resistivity
ZE63A	30.90		5.600E-08	MHASM2	
ZH62A	26.50		6.500E-08	MHASM2	
ZK51A	28.00		6.200E-08	MHASM2	

CSNDT=CSNDT compiled by Eddy Current Technology Incorporated
MHASM2=ASM Metals Handbook--Volume 2, Tenth Edition