Morgan
Advanced Materials

Carbon Inserts for Trolley Bus Shoes

Morgan Advanced Materials have longstanding experience in the transport market providing a breadth of application knowledge built up over time ensuring the best materials and designs.

Leveraging on this experience we supply trolley bus inserts that are durable and the best fit for this application, such as double tapered for a safe fit.

Material Grades for Trolley Bus Systems

Grade	Description	Typical Running Current (A/mm contact length)	Specific Resistance ($\mu\Omega$m)	Density (g/cm^3)	Transverse Bend Strength (MN/m^2)	Hardness Sceleroscope
CY3TA	Plain Carbon **Lead Free**	2.5	38	1.7	30	85
CY280	Plain Carbon Graphite **Lead Free**	2.5	38	1.6	35	75
CY3WA	Impregnated carbon for improved wear **Lead Free**	2.5	38	1.9	30	90
MY7A	Metalised CY3TA for higher strength and lower resistance **Lead Free**	4	10	2.4	75	90
MY7A2	Metalised CY280 for higher strength and lower resistance **Lead Free**	4	5	2.5	85	95
MY7D	Metalised CY3TA for higher strength and lower resistance	4	5	2.7	90	92
MY258A2	Modified version of MY7A2 with added impregnation strength & resistivity **Lead Free**	4	<2	2.7	75	85
MY258P	Metalised pressed grade with very low resistivity **Lead Free**	4	<1	3.2	85	80
MY259	Metalised CY280 for higher strength and lower resistance	4	3	2.8	90	90
MY131	Metalised dense base carbon to give low weight version of metalised grade **Lead Free**	4	8	2.2	80	105

Higher operating values are achievable under certain conditions. Please contact our engineers for further information, as typical running and static currents are for guidance only.