

Marking systems and marking material

Marking solutions for railway technology must be reliable and stable.

Fire protection also plays a crucial role. The MARKING system from Phoenix Contact provides the ideal marking solution for all railway industry applications. Select from among more than 2,000 halogen-free marking solutions optimized for fire protection, more than 10 different marking systems, and three marking technologies.



Product lists – marking material



Equipment and plant marking														
DIN EN 45545-2 (R22)	DIN EN 45545-2 (R23)	DIN EN 45545-2 (R24)	UL 94	DIN EN 60529:2000-09	Halogen-free ¹⁾	Lower application range [°C]	Upper application range [°C]	Material	Marking systems				Type	
									TOPMARK NEO	BLUEMARK ID / ID COLOR	THERMOMARK CARD 2.0	THERMOMARK PRIME 2.0		
HL1-HL3	HL1-HL3	HL1-HL3	V0		X	-40	120	PC	X	X	X	X	UCT-EM...	
HL1-HL2	HL1-HL2	HL1-HL2	V2			-35	120	PA		X			UC-EMLP...	
HL1-HL2	HL1-HL2	HL1-HL2	V2		X	-40	120	PA		X			UC-PMP...	
HL1-HL3	HL1-HL3	HL1-HL3	V0			-35	105	PA					CARRIER/L-PMP...	
HL1-HL3	HL1-HL3	HL1-HL3	V0			-40	105	PA					CARRIER-PMP...	
Metal				IPX9K ⁵⁾		-25	125	AL	X				LS-EMSP-AL...	
Metal				IPX9K ⁵⁾		-25	125	AL	X				LS-EMLP-AL...	
Metal				IPX9K ⁵⁾		-80	350 ³⁾	V4A	X				LS-EMSP-V4A...	
Metal				IPX9K ⁵⁾		-40	250 ⁴⁾	V4A	X				LS-EMLP-V4A...	
Metal				IPX9K ⁵⁾		-25	120 ²⁾	AL		X			EMSP-AL...	
Metal				IPX9K ⁵⁾		-25	120 ²⁾	AL		X			EMLP-AL...	
Metal				IPX9K ⁵⁾		-25	120 ²⁾	AL		X			EMP-AL...	

¹⁾ For the definition of halogen-free, see Attachment 1.

²⁾ Silver color version: Slight changes in the material surface are possible at temperatures over +80°C.

The other color variants (BK, BU, RD, OR, BU, GN) have a reduced temperature application range of -25°C to +70°C.

³⁾ Color changes are possible at temperatures above +350°C.

⁴⁾ Color changes are possible at temperatures above +250°C.

⁵⁾ Based on the marking.

Product lists – marking material



Wire and cable marking																			
DIN EN 45545-2 (R22)	DIN EN 45545-2 (R23)	DIN EN 45545-2 (R24)	UL 94	CSA C22.2 No. 198.1	DIN EN 60529:2000-09	Halogen-free ¹⁾	Lower application range [°C]	Upper application range [°C]	Material	Marking systems							Type		
										TOPMARK NEO	BLUEMARK ID / ID COLOR	THERMOMARK CARD 2.0	THERMOMARK PRIME 2.0	THERMOMARK GO / GO.K	THERMOMARK E.300/600 (D)	THERMOMARK ROLL 2.0			THERMOMARK E.300 DOUBLE
HL1-HL3	HL1-HL3	HL1-HL3	V0			X	-30	125	PO						X	X	X	WMS-OT HF...	
HL1-HL2	HL1-HL3	HL1-HL3				X	-30	85	TPU									PATG HF...	
HL1-HL3	HL1-HL3	HL1-HL3	V2				-40	120	PC	X	X	X	X					UCT-WMT...	
HL1-HL3	HL1-HL3	HL1-HL3	V2			X	-40	125	PC (transparent)									KMK HP...	
HL1-HL3	HL1-HL3	HL1-HL3	V0			X	-40	120	PC	X	X	X	X					UCT-EMP...	
HL1-HL3	HL1-HL3	HL1-HL3	V0			X	-40	120	PC	X	X	X	X					UCT-WMTBA...	
HL1-HL3	HL1-HL3	HL1-HL3	V0			X	-40	120	PC	X	X	X	X					UCT-WMCO...	
HL1-HL3	HL1-HL3	HL1-HL3				X	-55	100	PO					X				MM-WMS-2... Shrink ratio: 2:1	
HL1-HL3	HL1-HL3	HL1-HL3				X	-30	105	PO						X	X	X	WMS-2 HF... Shrink ratio: 2:1	

Wire and cable marking

DIN EN 45545-2 (R22)	DIN EN 45545-2 (R23)	DIN EN 45545-2 (R24)	UL 94	CSA C22.2 No. 198.1	DIN EN 60529:2000-09	Halogen-free ¹⁾	Lower application range [°C]	Upper application range [°C]	Material	Marking systems							Type	
										TOPMARK NEO	BLUEMARK ID / ID COLOR	THERMOMARK CARD 2.0	THERMOMARK PRIME 2.0	THERMOMARK GO / GO.K	THERMOMARK E.300/600 (D)	THERMOMARK ROLL 2.0		
HL1-HL2	HL1-HL2	HL1-HL2	V2			X	-40	120	PA		X						UC-WMTB...	
HL1-HL2	HL1-HL2	HL1-HL2	V2			X	-40	120	PA		X						UC-WMC...	
			V2			X	-25	100	PUR						X	X	WMTB HF...	
						X	-40	100	PE						X	X	WML HF...	
Metal					IPX9K ⁴⁾		-25	125	AL	X							LS-WMTB-AL...	
Metal					IPX9K ⁴⁾		-80	350 ³⁾	V4A	X							LS-WMTB-V4A...	
Metal					IPX9K ⁴⁾		-25	120 ²⁾	AL		X						WMTB-AL...	

¹⁾ For the definition of halogen-free, see Attachment 2.

²⁾ Silver color version: Slight changes in the material surface are possible at temperatures over +80°C.

The other color variants (BK, BU, RD, OR, BU, GN) have a reduced temperature application range of -25°C to +70°C.

³⁾ Color changes are possible at temperatures above +350°C.

⁴⁾ Based on the marking.

Product lists – marking material



Terminal marking													123N			
DIN EN 45545-2 (R22)	DIN EN 45545-2 (R23)	DIN EN 45545-2 (R24)	UL 94	Halogen-free ¹⁾	Lower application range [°C]	Upper application range [°C]	Material	Marking systems				Type				
								TOPMARK NEO	BLUEMARK ID / ID COLOR	THERMOMARK CARD 2.0	THERMOMARK PRIME 2.0					
HL1-HL3	HL1-HL3	HL1-HL3	V0	X	-40	120	PC	X	X	X	X	UCT-TMF... UCT-TM ...				
HL1-HL2	HL1-HL2	HL1-HL2	V2	X	-40	120	PA		X			UC-TM... UC-TMF...				

¹⁾ For the definition of halogen-free, see Attachment 2.

Marking systems



TOPMARK NEO

TOPMARK NEO creates markings via laser direct marking to meet the strictest requirements in the shortest amount of time.



BLUEMARK ID (COLOR)

BLUEMARK ID uses inkjet technology to print markings quickly, simply, and with razor-sharp definition.



THERMOMARK E.300 / E.600 (D)

The basic printer of the THERMOMARK E SERIES processes all materials off the roll – including large quantities of materials for permanent industrial use.



THERMOMARK E SERIES

Combine the THERMOMARK E.300(D)/E.600(D) printer with one of four applicators for automated conductor and cable or terminal identification.



THERMOMARK ROLL 2.0

The thermal transfer printer prints labels and shrink sleeves in roll and continuous formats for all applications.



THERMOMARK CARD 2.0

The thermal transfer printer is the efficient solution for printing plastic labels in card and sheet format.



THERMOMARK PRIME 2.0

The mobile thermal transfer printer with integrated operating software and powerful battery creates markings directly on site.



THERMOMARK GO

The mobile label printer is controlled using a smart device and can create markings with flexibility in an industrial environment.



THERMOMARK GO.K

The THERMOMARK GO.K handheld printer is ideal for fast identification on site.