

List of materials allowable for use in pantograph contact strips of motive power units to make contact with the overhead contact lines of PKP Polskie Linie Kolejowe S.A.

No.	Material symbol	Manufacturer	Restrictions
1	MY7A2	Morganite Electrical Carbon Ltd. – United Kingdom	without restrictions
2	P8511	MERSEN France Amiens S.A.S. – France	without restrictions
3	SK-162	Elektrokarbon a.s. – Slovakia	without restrictions
4	RH 83 M6	PanTrac GmbH – Germany	without restrictions
5	SK85ACu	Hoffmann & Co Elektrokohle AG – Austria	without restrictions
6	SK01Cu	Hoffmann & Co Elektrokohle AG – Austria	material type can be used on PLK network with restriction that during a stay under one-cable network two pantographs have to be raised and switched on
7	SK85Cu	Hoffmann & Co Elektrokohle AG – Austria	material type can be used on PLK network with restriction that during a stay under one-cable network two pantographs have to be raised and switched on
8	MY131	Morganite Electrical Carbon Ltd. – United Kingdom	without restrictions
9	S4202	Morganite Electrical Carbon Ltd. – United Kingdom	material type can be used on PLK network with restriction that during a stay under one-cable network two pantographs have to be raised and switched on
10	P5696	MERSEN France Amiens S.A.S. – France	without restrictions
11	SK07Cu	Hoffmann & Co Elektrokohle AG – Austria	without restrictions
12	RH83M8	PanTrac GmbH – Germany	without restrictions
13	RH84M8	PanTrac GmbH – Germany	without restrictions

Note:

In case of technological/maintenance journeys for the needs of PKP Polskie Linie Kolejowe S.A. it is recommended to use solutions for removal of ice and frost from overhead line cables at a speed of max. 70 km/h. The solutions involve using sliding pads with additional element with the edge of attack made of metal or other solutions (e.g. ice-removal pads FAN-NL-B3 type made by Fanina-Przemysł).