

**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).