

New carbon brush grade family for power tools

In addition to our very successful “L-grades” family we have developed a new family of carbon brush materials with the following advantages:

- Grades are suitable for 100-240 V applications
- Multiple brush replacement

Based on these specifications, the grades U5031/3 and U5043/8 are available now. The physical properties are summarized in table 1.

	U5031/3	U5043/8
Electrical resistivity	380 $\mu\Omega\text{m}$	300 $\mu\Omega\text{m}$
Bulk density	1,57 g/cm^3	1,62 g/cm^3
Hardness Rockwell HR10/40	63	75
Flexural strength	18 N/mm^2	18 N/mm^2

Table 1: Physical properties

Excellent test results have been achieved with small and large angle grinders:

- Remarkable increase in lifetime
- Low commutator wear
- Lower operating temperatures
- Low RFI
- Utilisation of up to 7 brush sets on one armature without reworking of the commutator

These grades can be used without impregnation or with one of our well known impregnations F12 or F13.

Please do not hesitate to contact us for more information and/or samples for your specific application.

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