

ATTACHMENT TO TEST REPORT IEC 60745-2-3 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES (HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS - SAFETY PART 2: PARTICULAR REQUIREMENTS FOR GRINDERS, POLISHERS AND DISK-TYPE SANDERS)	
Differences according to:	EN 60745-2-3:2011 used in conjunction with EN 60745-1:2009+A11:2010
Attachment Form No.	EU_GD_IEC60745_2_3C
Attachment Originator	Electrosuisse
Master Attachment	Date: 2011-05
Copyright © 2011 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.	

IEC60745_2_3C Attachment			
Clause	Requirement + Test	Result - Remark	Verdict
6	ENVIRONMENTAL REQUIREMENTS		
6.1.2.4	<i>Modification:</i> Grinders, polishers and disk-type sanders are suspended.		P
	For angle and vertical tools, the wheel or pad is horizontal.		P
	For straight tools, the wheel or pad is vertical.		N/A
6.1.2.5	<i>Modification:</i> Grinders, polishers and disk-type sanders are tested at no-load		P
6.2.6.3	Operating conditions		P
	<i>Addition:</i> The weight of the tool is considered the weight of the complete tool as prepared for the test with all equipment needed for normal use and with the artificial wheel mounted, but without the cable.		P
	Weight of the tool (kg)	4,1 kg	P
6.2.6.3.101	Grinding		N/A
	<i>Addition:</i> Tools for grinding applications are tested under load by using the artificial wheel under the conditions described below in Table Z101 for angle grinding and in Table Z104 for straight grinding.		N/A
6.2.6.3.102	Polishing		N/A
	<i>Addition:</i> Tools for polishing applications are tested under load and under the conditions described in Table Z106.		N/A
6.2.6.3.103	Disc-type sanding		N/A
	<i>Addition:</i> Tools for disc-type sanding applications are tested under load and under the conditions described in Table Z107.		N/A

IEC60745_2_3C Attachment			
Clause	Requirement + Test	Result - Remark	Verdict
6.2.7.1	Reported vibration value (vibration total values (triax vetcor sum) <i>Addition:</i>		P
	Work mode – straight grinding		N/A
	Vibration emission value $a_{h,SG}$ (m/s ²)		N/A
	Uncertainty K (m/s ²)		N/A
	Work mode – angle grinding		N/A
	Vibration emission value $a_{h,AG}$ (m/s ²)		N/A
	Uncertainty K (m/s ²)		N/A
	Work mode - polishing		P
	Vibration emission value $a_{h,P}$ (m/s ²)	See report: 3123568.50A	P
	Uncertainty K (m/s ²)	See report: 3123568.50A	P
	Work mode – disc type sanding		N/A
	Vibration emission value $a_{h,DS}$ (m/s ²)		N/A
	Uncertainty K (m/s ²)		N/A
6.2.7.2	Declaration of the vibration emission value (instruction manual) <i>Addition:</i>		N/A
	Work mode – straight grinding		N/A
	Vibration emission value $a_{h,SG}$ (m/s ²)		N/A
	Uncertainty K (m/s ²)		N/A
	Work mode – angle grinding		N/A
	Vibration emission value $a_{h,AG}$ (m/s ²)		N/A
	Uncertainty K (m/s ²)		N/A
	Work mode - polishing		P
	Vibration emission value $a_{h,P}$ (m/s ²)	See report: 3123568.50A	P
	Uncertainty K (m/s ²)	See report: 3123568.50A	P
	Work mode – disc type sanding		N/A
	Vibration emission value $a_{h,DS}$ (m/s ²)		N/A
	Uncertainty K (m/s ²)		N/A
18	ABNORMAL OPERATION		P
18.10	<i>Addition:</i> Functionality of an electronic restart prevention device is disregarded		N/A
19	MECHANICAL HAZARDS		P
18.10	<i>Addition:</i> When wheel guards have to be removed while maintenance procedure, the fastenings shall remain attached to the guard or to the tool		N/A

IEC60745_2_3C Attachment			
Clause	Requirement + Test	Result - Remark	Verdict
21	CONSTRUCTION		P
21.18.1	<i>Replacement:</i> The switch is of momentary contact type.		N/A
	For single phase angle grinders with a rated capacity greater than 155 mm and for single phase straight grinders with a rated capacity greater than 130 mm, either		N/A
	the mains switch automatically switches off the motor as soon as the actuating member of the switch is released and has no locking arrangement in the "on" position, or		N/A
	the tool does not restart after an interruption of the mains supply without releasing and re-actuating the switch. In this case, a lock-on device is allowed provided that two dissimilar actions are necessary to lock the switch in the "on" position, in addition, only a single motion to the actuating member of the switch is be required for the switch to automatically return to the "off position.		N/A
	The restart prevention device has a Safety Integrity Level SIL 1 (EN 62061), or a performance level PL=b (EN ISO 13849-1)		N/A
	For all other tools:		P
	a lock-on device is allowed provided that two dissimilar actions are necessary to lock the switch in the "on" position, in addition, only a single motion to the actuating member of the switch is be required for the switch to automatically return to the "off position.		P
21.Z1	<i>Addition:</i> Disc-type sanders exclusively for sanding wooden floors are considered to be tools where a considerable amount of dust is produced.		N/A