

## Product marking requirements for superabrasives

This document provides guidance and explanations for the marking of superabrasive products on the basis of the EN 13236, oSa Technical Annex and Conditions of Use for the oSa Trademark.

### Marking requirements for specific products according to EN 13236:2019 and oSa

Specifications	1	2	3	4	5	6	7	8	9	10	11
Description of abrasive product	Manufacturer, supplier, importer, trademark	Dimensions mm	Maximum operating speed <sup>a</sup> m/s	Maximum permissible speed of rotation 1/min or rpm	Direction of rotation and run	Declaration of conformity	Restriction of use	Traceability code	safety signs	oSa Logo	Private label number
Precision grinding and cutting-off wheels	X	X	X	X	–	X	X	X	–	X	
Non-precision cutting-off wheels for hand held machines	X	X	X	X	X	X	X	X	X	X	
Non-precision cutting-off wheels for stationary and mobile machine	X	X	X	X	X	X	X	X	–	X	Must be used on all private label products bearing the oSa logo
Mounted points	X	X	–	X	–	X	X	X	–	X	
Diamond wires	X	X	X	–	X	X	–	X	–	X	
Other superabrasives products for non-precision grinding	X	X	X	X	–	X	X	X	–	X	

<sup>a</sup> No format restriction regarding decimal and thousands separators

### To specification 1: Trade name

Instead of the name of manufacturer, supplier or importer their registered trademark may be shown.

### To specification 2: Dimension

Precision grinding and cutting-off wheels	—	nominal dimensions
Non-precision cutting-off wheels and other superabrasive products for non-precision grinding	—	nominal dimensions in particular the diameter of the bore (e.g. $H = 22,23$ mm for superabrasive products to use on hand-held grinding machines)
Mounted points	—	nominal dimensions, diameter of the spindle and minimum clamping length

- Should state diameter, thickness & bore in mm, e.g.: 300 x 20 x 50.80 mm
- ISO Standard dimensions should be used wherever the application permits (ISO 22917)
- Ensure correct conversion of imperial bore sizes, e.g.: 7/8" is 22.23 mm not 22.2 mm or 22 mm

### To specification 3: Maximum operating speed

- Should specify the maximum possible speed that the wheel can be safely used at
- This is the speed that is used to derive the test requirements
- Should be taken from the table in Annex D of EN 13236

### To specification 4: Maximum permissible speed of rotation

The speed of rotation marked on the product should be according to Annex D. For mounted points, the maximum permissible speed of rotation as a function of the relevant overhang and the minimum length of spindle within the collet shall be given. An example for a calculation method for the determination of the permissible speeds of rotation is given in Annex B.

### To specification 5: Direction of rotation and run





Non-precision cutting-off wheels shall be marked with the direction of rotation. Diamond wires shall be marked with the direction of run.

### To specification 6: Declaration of conformity

For declaration of conformity with the requirements of this standard, the superabrasive products shall be marked with: EN 13236

### To specification 7: Restriction of use

- Shall be given in full length or by pictogram:

Not permitted for hand-held grinding	Not permitted for face grinding	Only permitted for totally enclosed working area	Only permitted for wet cutting
This restriction only applies to abrasive products not for use on handheld machines but capable of being mounted on such machines	Abrasive product only for use on cutting-off machines. <b>NOTE:</b> This restriction only applies to abrasive products for use on hand-held machines	Abrasive product only for use on stationary machines the guarding of which is accepted as totally enclosed working area	Abrasive product only suitable for wet cutting
			

#### Grinding wheels:

- Not permitted for hand-held or manually-guided grinding
- Not permitted for wet grinding
- Only permitted for totally enclosed working area

#### Cutting-off wheels (diamond saws):

- Not permitted for wet cutting-off
- Only permitted for totally enclosed working area
- Only permitted for wet cutting-off

Superabrasive products for which certain grinding procedures, grinding machines and certain applications have to be obeyed, shall be marked with the corresponding restrictions of use according to Table A.2 of EN 13236.







The restrictions of use shall be given in full length (see Table A.2, Column 1) or in the form of sign (see Table A.2, Column 3).

### To specification 8: Traceability code

To ensure traceability and identification, the superabrasive products shall be marked with a traceability code which enables to link an individual product to a limited production quantity. The traceability code may be expressed by e.g. a production/batch number, date of production or series number.

### To specification 9: Safety signs

If necessary, the safety signs shall be in accordance with EN ISO 7010. Examples see Table A.3.

Description	Safety signs
Follow instruction	
Use ear protection	
Use eye protection	
Use mask	
Use hand protection	
Use face shield	

### To specification 10: oSa Logo

All products should be marked:



By marking oSa on the product, the manufacturer is confirming that it meets the requirements of EN 13236 and the additional requirements stipulated in the Technical Annex of oSa

### To specification 11: Private label number

All products bearing the oSa logo on private label products must also bear the five-digit oSa private label number.

### Execution of marking following point A.2 of EN 13236

The marking shall be indelible and legible before first use of the product.

For non-precision cutting-off and cup grinding wheels, specifications 1, 3, 8 according to EN 13236 Table A.1 shall be embossed, engraved, etched or UV printed in the area covered by the flanges.

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### Execution of the marking following point 4.4 “Conditions of Use for the oSa Trademark”

The additional marking of abrasive products and packaging bearing the oSa mark with designations, symbols, logos, seals, numbers, etc. of third parties, in particular with those of other testing or safety institutes such as the DSA, MPA or TÜV is not permitted, unless there is a subsequent national legal requirement or other objective reasons which justify the need for such an additional marking. It is, however, permitted to mark abrasive products and packaging with the applicant's own company designations, symbols, etc. which are clearly and unambiguously recognizable as such as well as national product standards, provided they are adhered to and do not contradict the EN safety standards.

It is permitted to mark abrasive products with imperial in addition to metric measurements. However, the exclusive marking with imperial measurements is not permitted. Furthermore, type designations according to ANSI (Type 1 for cutting-off wheels) are permitted if the correct ISO type designation for cutting-off wheels (ISO Type 41 or Type 42) is also marked. The additional marking with ANSI TYPE 1 should preferably be connected to the designation of imperial measurements.

Upon the oSa's request, a sample of the abrasive products or packaging marked in this way has to be presented to the oSa-office.