

Metallurgical Sampling

Precision Cutting Wheels

<u>Intro</u>

Metallography is the study of the microstructure of metals. This is essential for key industries such as automotive, aerospace and new materials development. Metallography is used to determine if the material has been properly prepared and is of a reliable structure.

<u>åtto range</u>

Metallurgical sampling is the cutting of a small sample of metal without changing its characteristics in order to conduct testing. atto offers products in rubber and resin specifications.



Fig No.1 (åtto resin cutting wheel)

Benefits of attos wheels for metallurgical samples

- Cost effective cutting
- Reduced cycle time
- Minimum Heat generation

- Minimum Burr
- Full range of sizes & specifications
- Rubber & Resin specifications available

Correct wheel specification to match your application

To select the most suitable wheel specifications several factors should be considered, including; material; material hardness; part shape; cutting process (*with or without coolant*); wheel size. The material hardness is of primary importance. Below is a selection of the cutting wheel specifications & sizes manufactured by atto.

Customised sizes & specifications can be provided.

åttoabrasives

<u>Resin</u>

Soft-Ferrous Metals 0-300 (HV) Specifications WA80 - N - B590

150 x 0.8 x 12.7 250 x 1.5 x 32 300 x 2 x 32

<u>Rubber</u>

Soft-Ferrous Metals 0-300 (HV) Specifications WA100 - N - R49

150 x 0.8 x 12.7 250 x 1.5 x 32 300 x 2 x 32

Medium-Ferrous Metals 0-300 (HV) Specifications WA80 - M - B590

150 x 0.8 x 12.7 250 x 1.5 x 32 300 x 2 x 32 Medium-Ferrous Metals 0-300 (HV) Specifications WA100 - M - R49

150 x 0.8 x 12.7 250 x 1.5 x 32 300 x 2 x 32

Hard-Ferrous Metals 0-300 (HV) Specifications WA80 - L - B590

150 x 0.8 x 12.7 250 x 1.5 x 32 300 x 2 x 32 Hard-Ferrous Metals 0-300 (HV) Specifications WA100 - L - R49

150 x 0.8 x 12.7 250 x 1.5 x 32 300 x 2 x 32

Non-Ferrous Metals 0-300 (HV) Specifications WA80 - Q - B590

150 x 0.8 x 12.7 250 x 1.5 x 32 300 x 2 x 32 Non-Ferrous Metals 0-300 (HV) Specifications C120 - Q - R49

150 x 0.8 x 12.7 250 x 1.5 x 32 300 x 2 x 32

Ferrous Metals = Metals that contain Iron. E.g Alloy steel, Carbon steel, Cast Iron **Non-Ferrous Metals** = Metals that do not contain Iron. E.g Aluminium, Copper, Lead, Zinc, Inconel,



Technical Specifications:

At atto Abrasives we manufacture a range of Resin Cut-Off wheels to meet the unique requirements of our customers. To match their needs, we offer a variety of abrasive grit types (e.g. A, WA, C & GC), grit sizes (60-400 FEPA) and Resin bonds to formulate our unique Resin Bonded cut off wheels.

Customised Solutions:

As an established manufacturer of Rubber & Resin bonded cut off wheels, we at atto have the knowledge and experience to meet the most demanding precision cutting applications. Let us know your requirements and we can formulate a specification customised to your precise needs.

Required Information.

Material
Material hardness
Part Description
Cutting process (coolant or non-coolant)
Wheel Size
Additional Information



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