

Grinding Wheels

GF01 SERIES BT100

Rough Grinding Wheel Bond for Ultra-High Process Quality

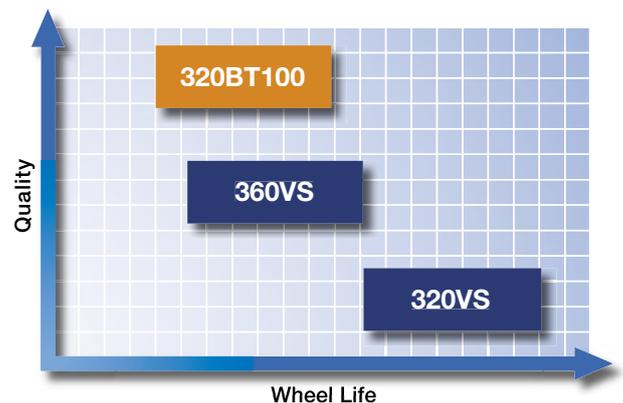


BT100, a newly developed resin bond for rough grinding wheels, offers ultra-high grinding quality.

BT100, a newly developed bond for rough grinding wheels, supports wheel life comparable to that of standard vitrified bond. At the same time, BT100 helps reduce edge chipping and grinding damage, making it an ideal for use in ultra-thin grinding.

- Newly developed resin bond offers ultra-high grinding quality.
- Life comparable to that of standard vitrified bond wheels.
- Consistent and highly precise grinding results.
- New wheel base (GF01) offers highly effective delivery of coolant water.

■ Wheel comparison



ISO 9001
JQA-0954



REGISTERED ORGANIZATION
No. E892 - ISO 14001

Applications

Silicon wafers, etc.

Specifications

Grinding Wheels

GF01 SERIES BT100

Bond	Concentration	Wheel Size (mm)	Tooth Width
BT100	50	200 300	4W

GF01 - SD 320 - BT100 - 50 200 x 4W x 5T - ST

Abrasive Type	Grit Size	Tooth Thickness	Tooth Type	Shape	Arrangement
SD	320	5T	ST	Segment	Triangular
			SR	Segment	Circular
			WS	Special	Circular

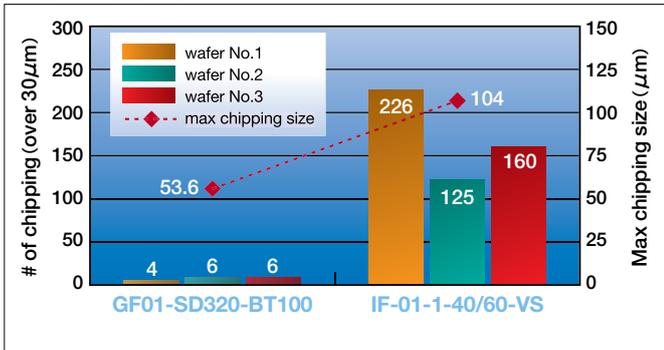


Note: Due to ongoing research and development, product specification is subject to change without notice.

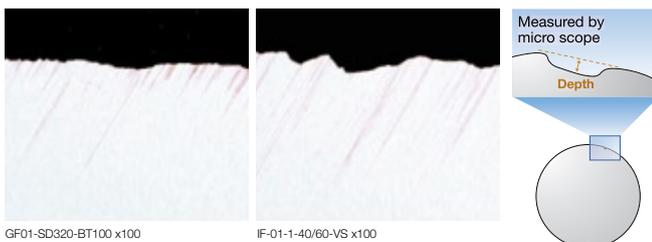
Comparative Data with Previous Wheels

With the increase in ultra-thin grinding applications for silicon, in recent years there has been a need for process quality improvements during the rough grinding stage, including reduced edge chipping and grinding damage layers. In response, Disco has added to the GF01 Series wheel lineup the BT100 bond, which features extremely high grinding quality while comparable to that of standard vitrified bond.

Edge chipping



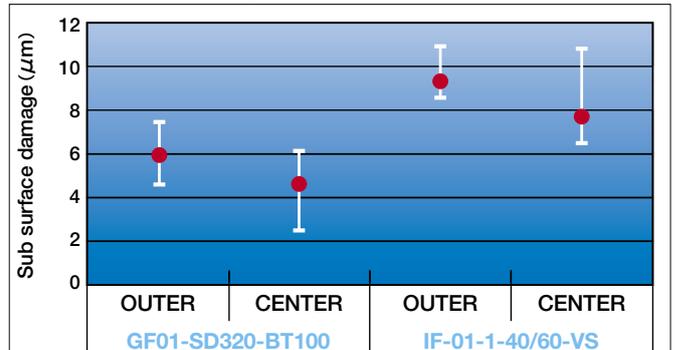
Workpiece: $\phi 8''$ silicon mirror wafer x 3 Z2 removal amount: 20µm
Final thickness: 100 µm Z2 wheel: IF-01-1-4/6-B-K09



GF01-SD320-BT100 x100

IF-01-1-40/60-VS x100

Sub surface damage



Workpiece: $\phi 8''$ silicon mirror wafer x 1
Final thickness: 400µm



GF01-SD320-BT100 x200

IF-01-1-40/60-VS x200

When ordering

Please contact a Disco representative with your product needs such as type, wheel size, and quantity.

When you place the first order with us, please explain application information such as materials to grind, sizes, machine, type, and other specification.

We are ready to help you to determine which is our most appropriate product type for your application.

Due to improvements in our products, it is possible that product specifications may be changed without advanced notice. Please confirm the product specifications with a Disco representative.

To use these Disco wheels safely...

Please read carefully and follow the instructions below to prevent any accidents or injuries.

- USE a safety cover (nozzle case, cover), equipped as a standard accessory, to avoid injury.
- DO NOT EXCEED the maximum rpm if it is specified.
- FOLLOW the instruction manual of the machine to mount wheel properly.
- DO NOT DROP OR HIT wheels. this may cause wheel breakage or injury.
- Always CHECK the wheel for chipping or any other wheel damage before starting to use the wheel. DO NOT USE the wheel if there is any damage.
- READ the operation manual of the cutting/ grinding equipment before use.
- DO NOT USE a wheel with a modified or customized equipment.
- DO NOT USE a wheel that has a different size from the one recommended for your machine.
- DO NOT USE a wheel for any other purpose than Grinding, Cutting, or Polishing.
- Always USE water or coolant to prevent wheel breakage.

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