

M361

Properties

Grade: M361

Main Elements: Cu Fe

Theoretical Density(g/cm³): 7.80

Fisher Size(μm): 2~4

Apparent Density(g/cm³): 1~2

Oxygen Content (%): <0.8

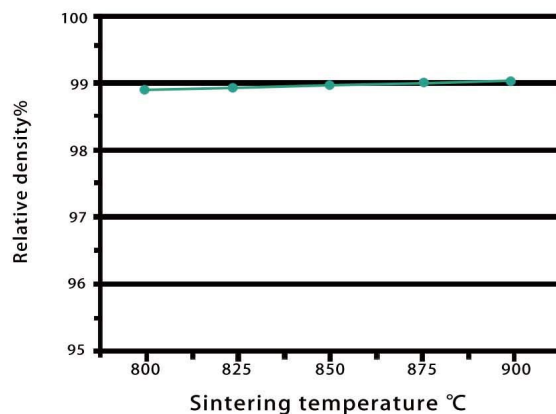
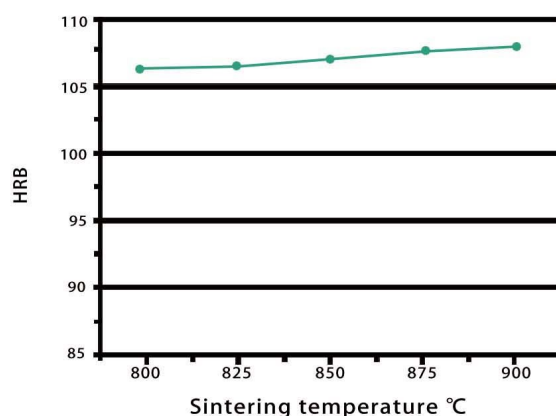
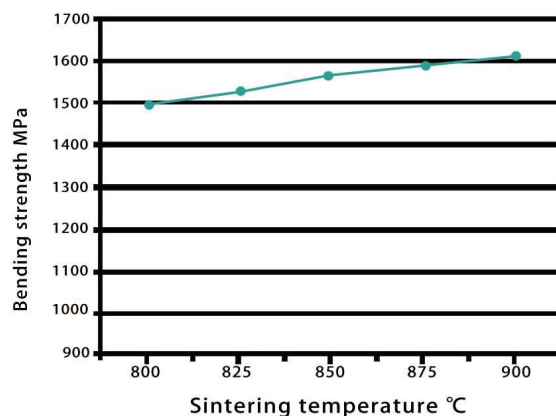
Main Advantages:

Strong diamond retention,
excellent free cutting ability

Applications:

Suitable for diamond segments,
wire saw beads, drills, etc.

Sintering Curves



M611

Properties

Grade: M611

Main Elements: Co Cu Fe

Theoretical Density(g/cm³): 8.62

Fisher Size(μm): 1~2

Apparent Density(g/cm³): 1.0~1.5

Oxygen Content (%): <0.8

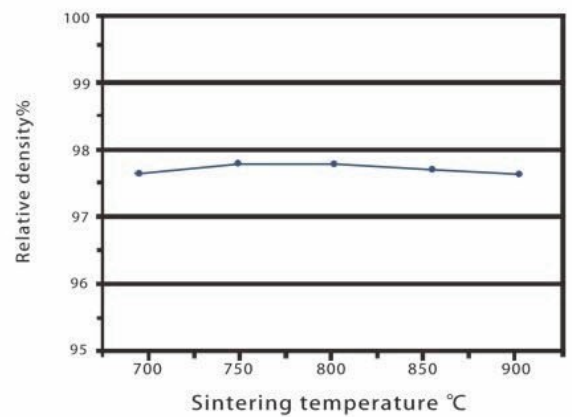
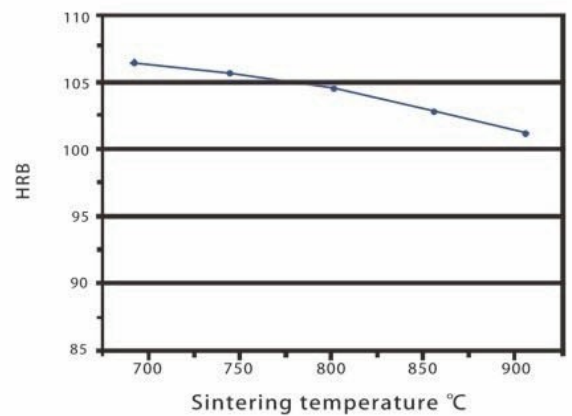
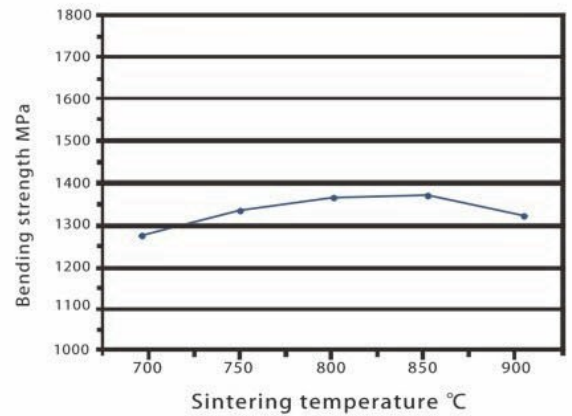
Main Advantages:

Excellent free cutting ability

Applications:

Suitable for variety of stone, ceramic, concrete processing tools

Sintering Curves



M612

Properties

Grade: M612

Main Elements: Co Cu Fe

Theoretical Density(g/cm³): 8.75

Fisher Size(μm): 1~2

Apparent Density(g/cm³): 1~1.5

Oxygen Content (%): <0.8

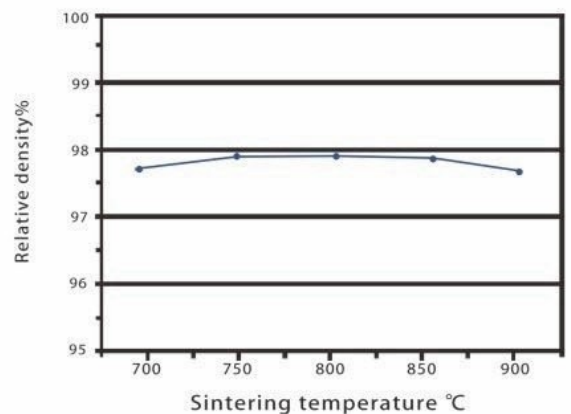
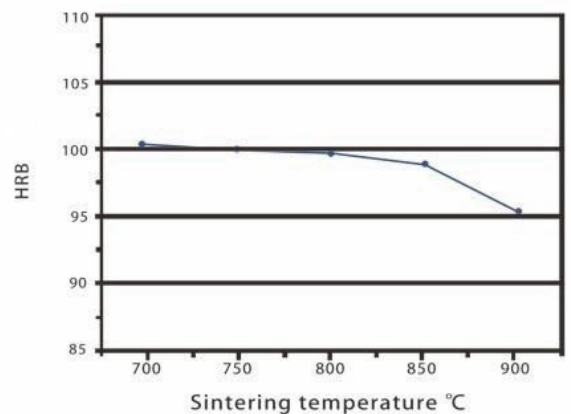
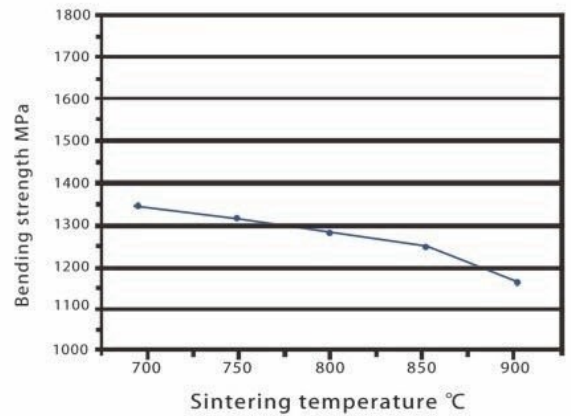
Main Advantages:

Excellent free cutting ability,
low sintering temperature

Applications:

Suitable for variety of marble, sintered,
stone,glass,ceramic processing tools

Sintering Curves





M613

Properties

Grade: M613

Main Elements: Co Cu Fe

Theoretical Density(g/cm³): 8.25

Fisher Size(μm): 2~3

Apparent Density(g/cm³): 1.0~1.5

Oxygen Content (%): <0.8

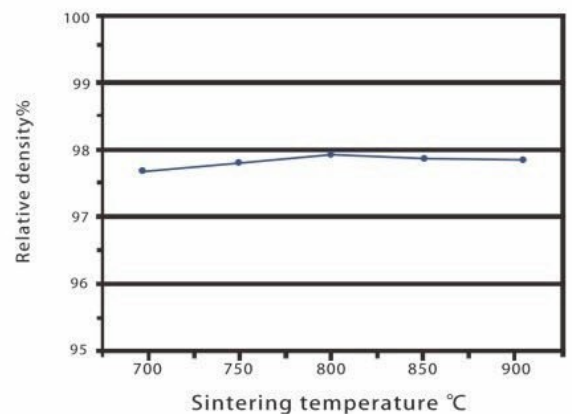
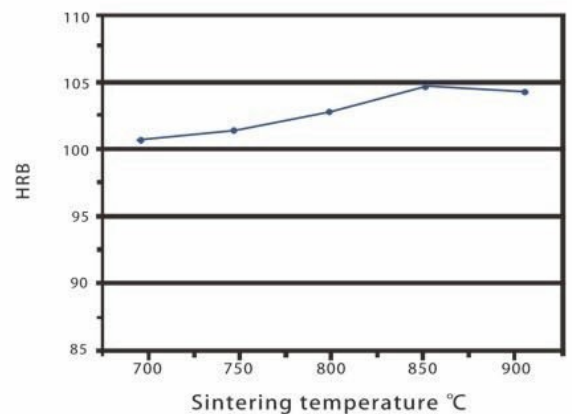
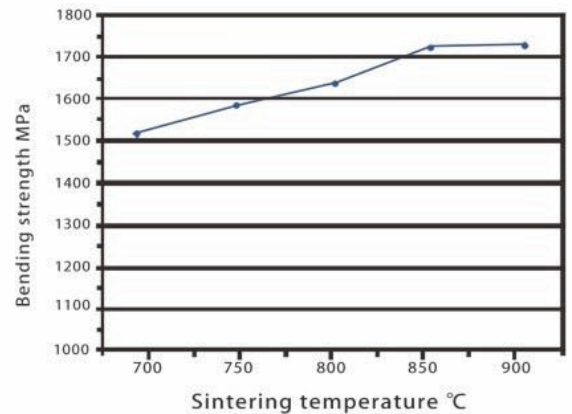
Main Advantages:

High strength, high hardness

Applications:

Suitable for geological broach, core bits, diamond wire beads, gang saw, etc.

Sintering Curves



M614

Properties

Grade: M614

Main Elements: Co Cu Fe

Theoretical Density(g/cm³): 8.42

Fisher Size(μm): 1.5~2.5

Apparent Density(g/cm³): 1.0~1.5

Oxygen Content (%): <0.8

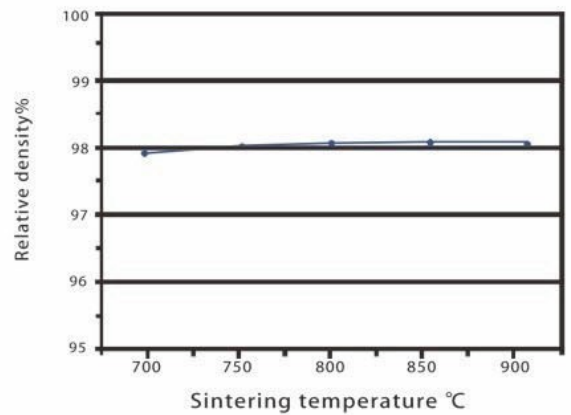
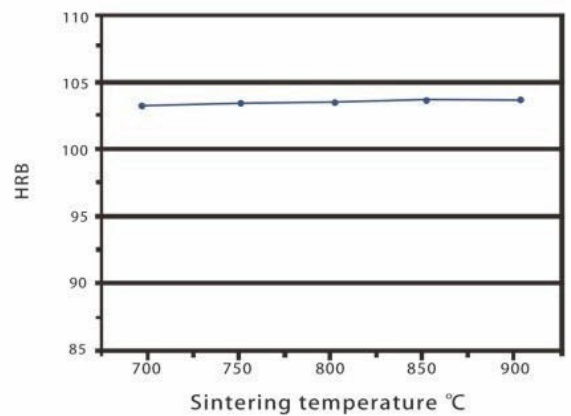
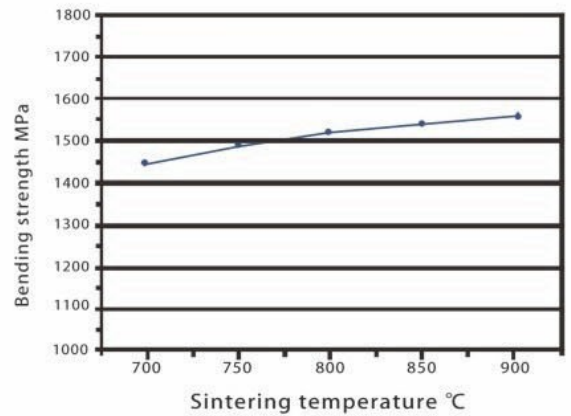
Main Advantages:

Balance performance in the free cutting ability and tools life

Applications:

Suitable for variety of stone,ceramic, concrete processing tools

Sintering Curves



M616

Properties

Grade: M616

Main Elements: Co Cu Fe

Theoretical Density(g/cm³): 8.47

Fisher Size(μm): 2.0~3.0

Apparent Density(g/cm³): 1.2~1.7

Oxygen Content (%): <0.8

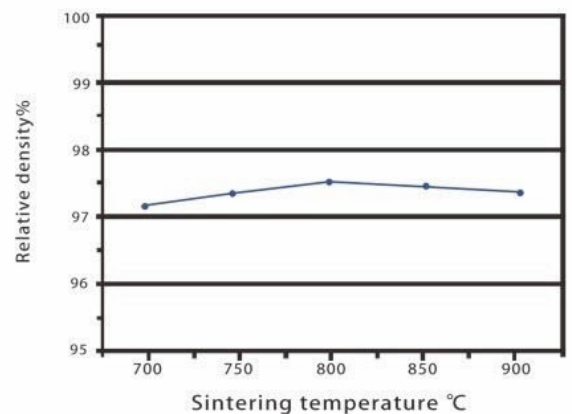
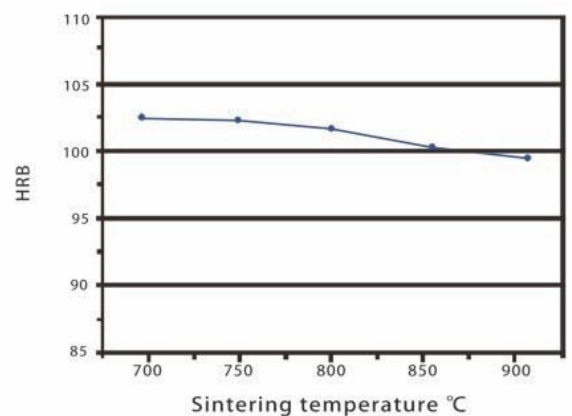
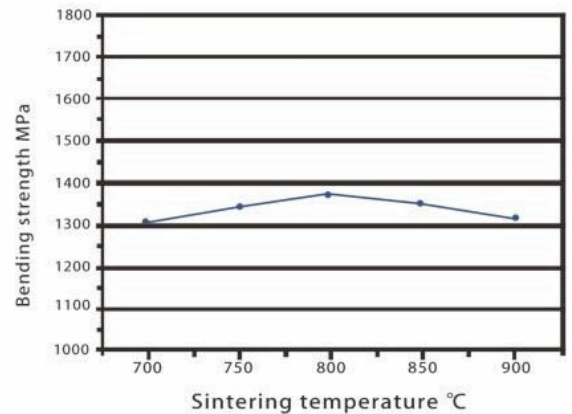
Main Advantages:

Balance performance in the free cutting ability and tools life

Applications:

Suitable for variety of stone, ceramic, concrete processing tools

Sintering Curves



COBALT-BASED

M617

Properties

Grade: M617

Main Elements: Co Cu Fe

Theoretical Density(g/cm³): 8.15

Fisher Size(μm): 3.0~4.0

Apparent Density(g/cm³): 1.5~2.0

Oxygen Content (%): <0.5

Main Advantages:

Main Advantages

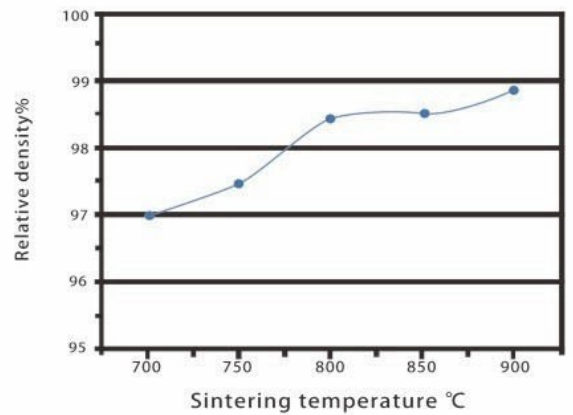
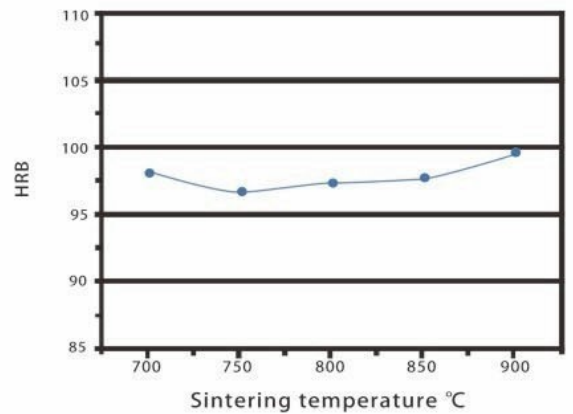
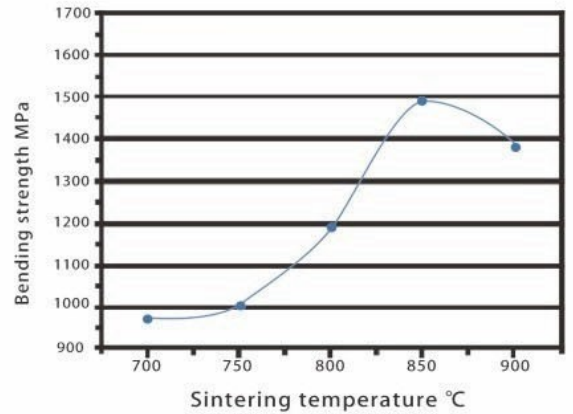
Good generality, high cost effective

Applications:

Main Advantages

Good generality, high cost effective

Sintering Curves





M631

Properties

Grade: M631

Main Elements: Co Cu Fe

Theoretical Density(g/cm³): 8.49

Fisher Size(μm): 3.0~4.0

Apparent Density(g/cm³): 1.0~1.5

Oxygen Content (%): <0.2

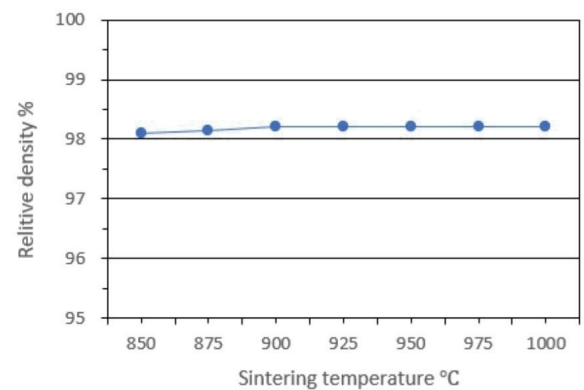
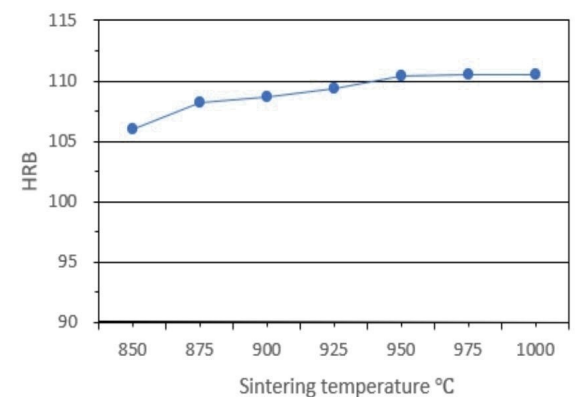
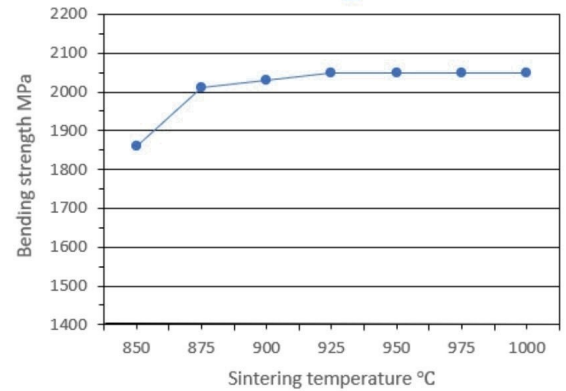
Main Advantages:

High strength, high hardness

Applications:

Suitable for geological broach, core bits, segments, etc

Sintering Curves





M751

Properties

Grade: M751

Main Elements: Co Cu Fe

Theoretical Density(g/cm³): 8.05

Fisher Size(μm): 2~4

Apparent Density(g/cm³): 0.8~1.5

Oxygen Content (%): <0.8

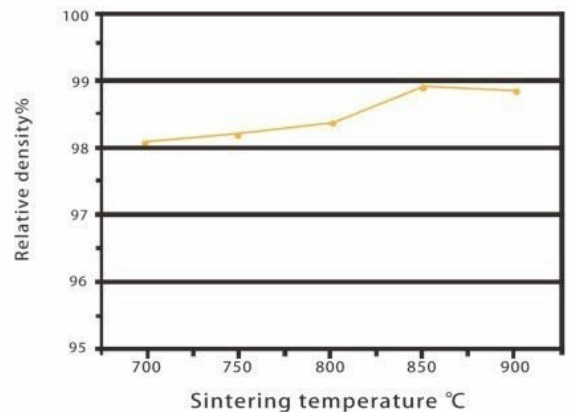
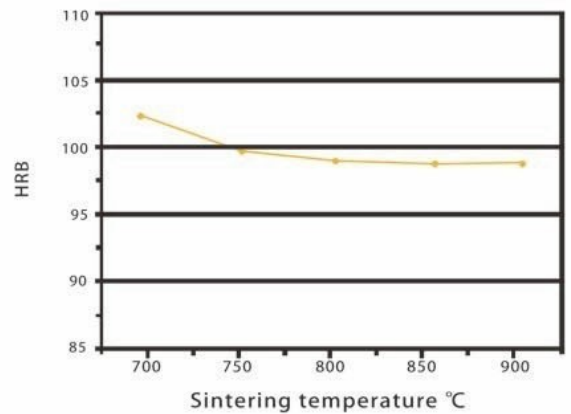
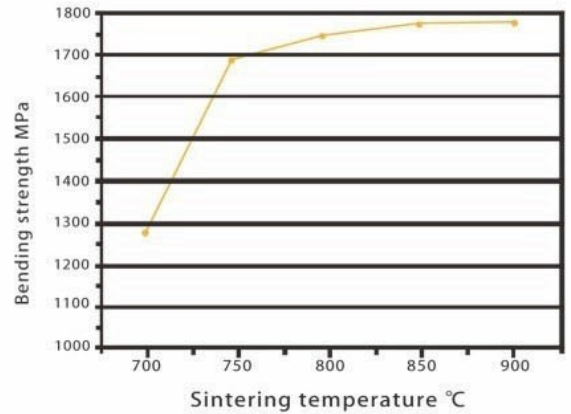
Main Advantages:

Low sintering temperature,
high welding strength

Applications:

For laser welding (backing) application

Sintering Curves





M752

Properties

Grade: M752

Main Elements: Co Cu Fe Ni

Theoretical Density(g/cm³): 8.14

Fisher Size(μm): 2~4

Apparent Density(g/cm³): 0.8~1.5

Oxygen Content (%): <0.8

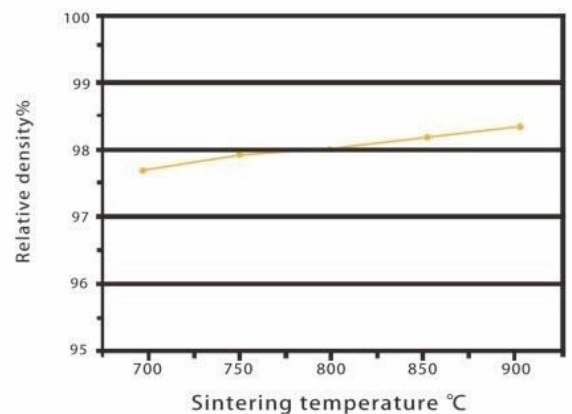
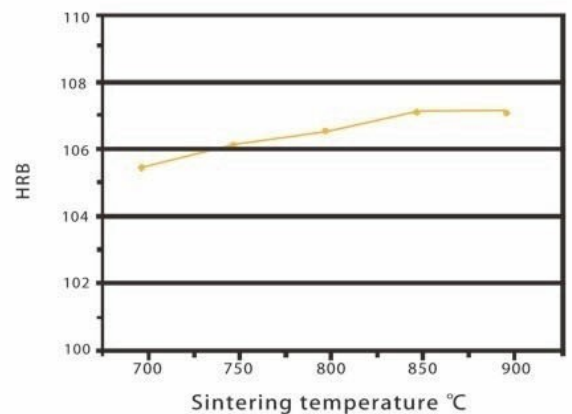
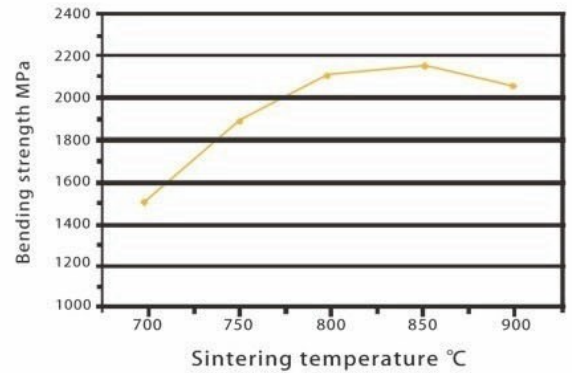
Main Advantages:

Low sintering temperature,
high welding strength

Applications:

For laser welding (backing) application

Sintering Curves





M753

Properties

Grade: M753

Main Elements: Co Cu Fe

Theoretical Density(g/cm³): 7.92

Fisher Size(μm): 3~4

Apparent Density(g/cm³): 1.7~2.3

Oxygen Content (%): <0.8

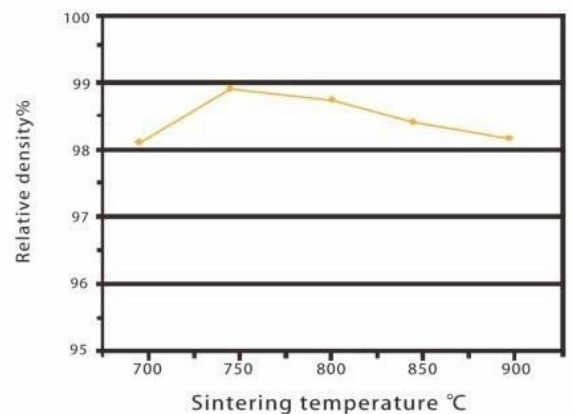
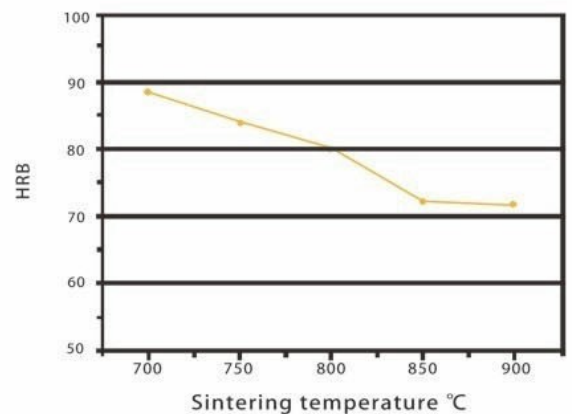
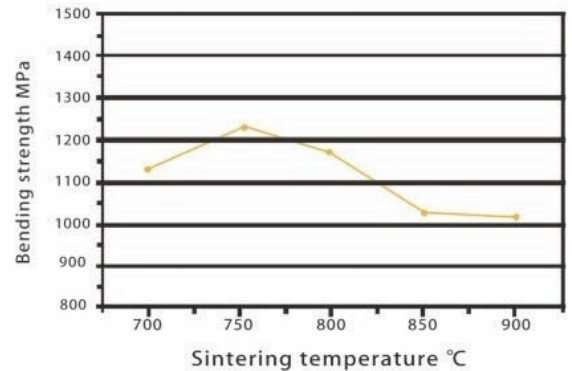
Main Advantages:

Low sintering temperature,
high ductility,
high torque resistance

Applications:

For laser welding (backing) application

Sintering Curves



M755

Properties

Grade: M755

Main Elements: Co Cu Fe

Theoretical Density(g/cm³): 8.19

Fisher Size(μm): 2~4

Apparent Density(g/cm³): 0.8~1.5

Oxygen Content (%): <0.8

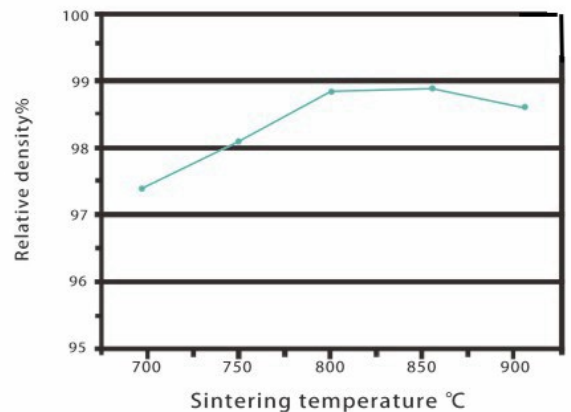
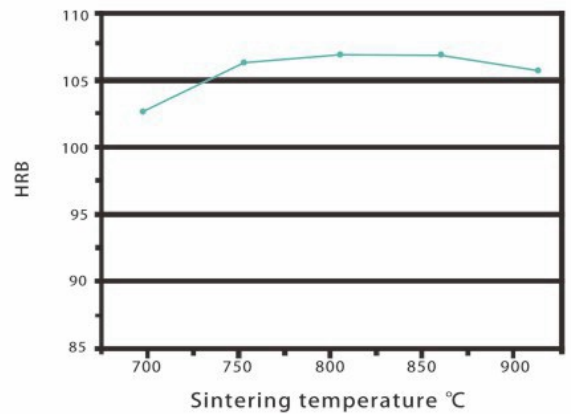
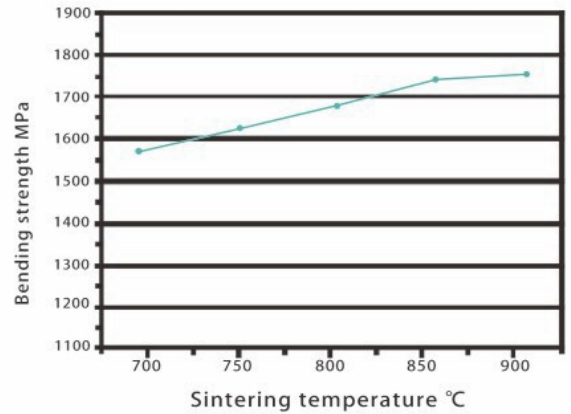
Main Advantages:

Low sintering temperature,
high welding strength

Applications:

For laser welding (backing) application

Sintering Curves



M863

Properties

Grade: M863

Main Elements: Co Cu Fe Sn Ni

Theoretical Density(g/cm³): 8.48

Fisher Size(μm): 2~3

Apparent Density(g/cm³): 1.2~1.8

Oxygen Content (%): <0.8

Main Advantages:

Good abrasive resistance

Applications:

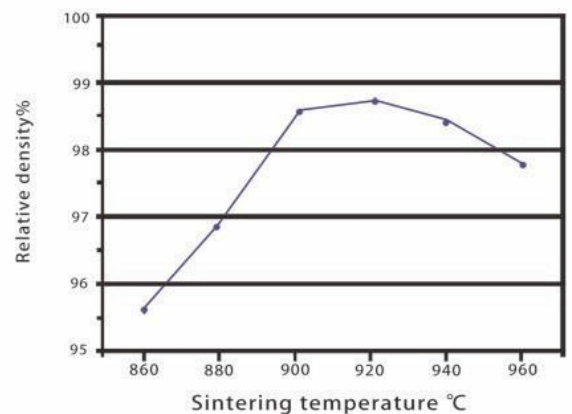
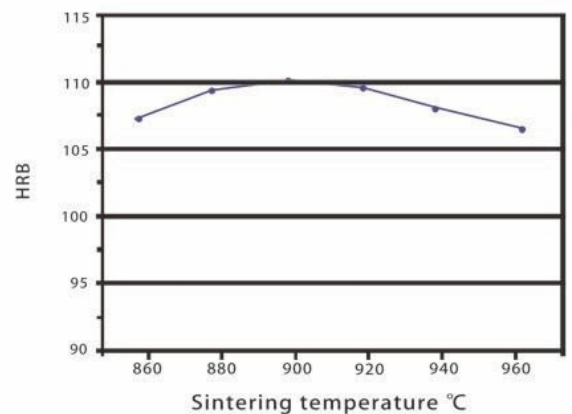
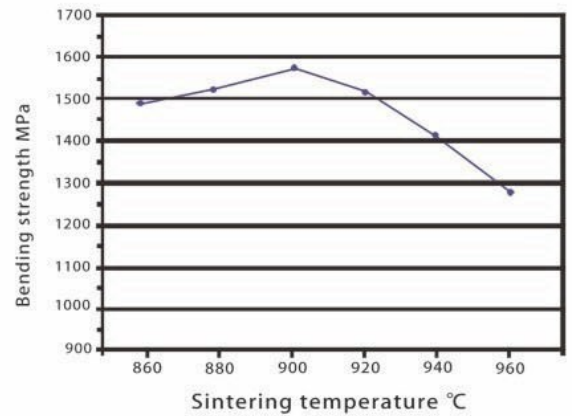
Suitable for variety of diamond saw blade, segments, diamond wire beads, etc.

Experimental conditions:

Cold-pressed pressure: 250Mpa

Sintering atmosphere: Hydrogen

Sintering Curves



FREE SINTERING

M864

Properties

Grade: M864

Main Elements: Co Cu Fe Sn

Theoretical Density(g/cm³): 8.18

Fisher Size(μm): 3~4

Apparent Density(g/cm³): 1.5~2.5

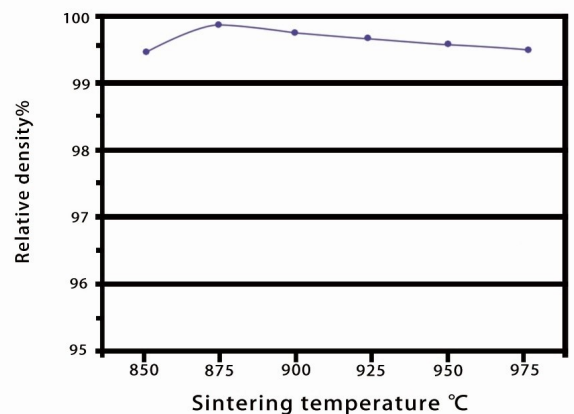
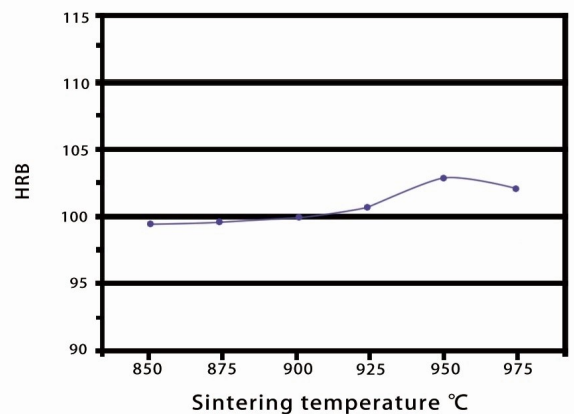
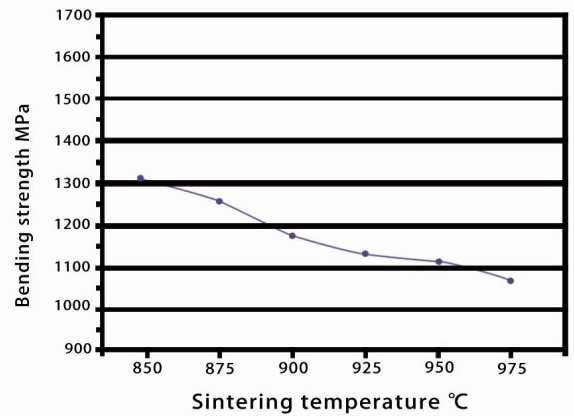
Oxygen Content (%): <0.8

Main Advantages:
Excellent free cutting ability

Applications:
Suitable for variety of diamond saw blade, segments, diamond wire beads, etc.

Experimental conditions:
Cold-pressed pressure: 250Mpa
Sintering atmosphere: Hydrogen

Sintering Curves



FREE SINTERING



M865

Properties

Grade: M865

Main Elements: Co Cu Fe

Theoretical Density(g/cm³): 8.39

Fisher Size(μm): 1.5~2.5

Apparent Density(g/cm³): 1.0~1.5

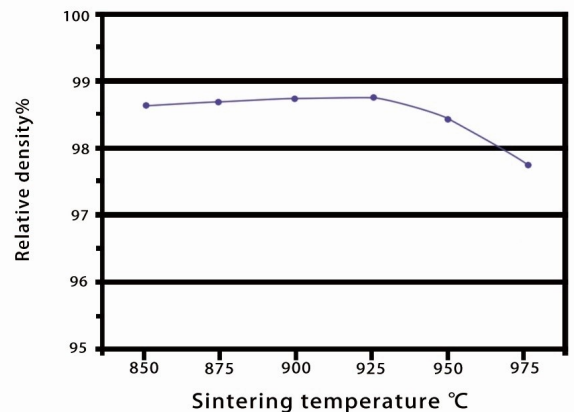
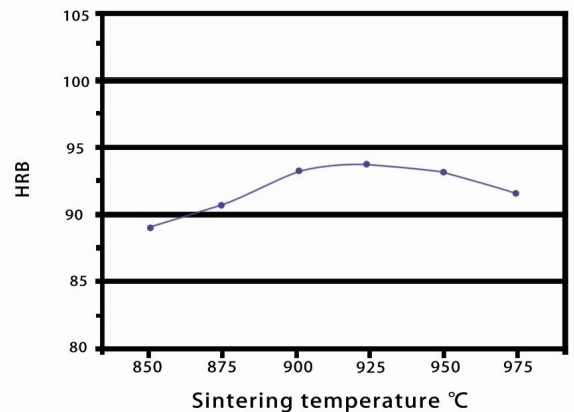
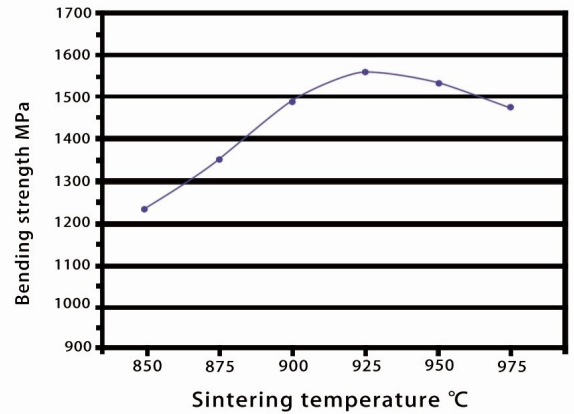
Oxygen Content (%): <0.8

Main Advantages:
Excellent free cutting ability

Applications:
Suitable for variety of diamond saw blade, segments, diamond wire beads, etc.

Experimental conditions:
Cold-pressed pressure: 250Mpa
Sintering atmosphere: Hydrogen

Sintering Curves



FREE SINTERING