



# Zirconia Implant System

Total Solution for Function and Esthetics

[www.zibone.com](http://www.zibone.com)





## About COHO

Founded in 2001, Coho Biomedical Technology is a leading manufacturer of high precision ceramic medical products in the world. Coho's advanced technologies have obtained several patents. This lays the strong foundation for the successful development of ZiBone – Zirconia ceramic implants. ZiBone is the result of joint efforts between universities, private clinicians, and the technologies of Coho.

Coho recognizes that nowadays patients are not satisfied merely with the function of restorations but also demand esthetics. With this mind, Coho develops a total esthetic solution for implant treatments: ZiBone ceramic implants for both function and esthetics, ceramic drills for cutting efficiency and reducing heat generation, and our milling center for producing fixed temporary and Zirconia ceramic prostheses for accurate fit and esthetics. Zirconia is a material of choice for esthetics, biocompatibility, and mechanical properties.

Coho attaches great importance to quality. We are subject to regulation of its quality assurance system under ISO 13485/ISO 9001 at each stage of its operations. All of our products must go through stringent quality control to make sure that they perform to specification and patient safety requirements. ZiBone ceramic dental implants were approved by US FDA, CE, and TFDA.

# Dental Implants



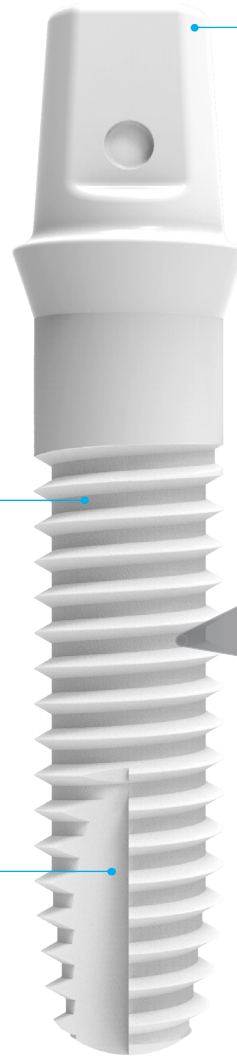
## ZiBone Zirconia Implant

### The Next Generation of Implants

ZiBone is a one-piece zirconia implant (fixture and abutment in one piece) made of extremely strong high-purity zirconia  $ZrO_2$ -TZP conforming to ISO 13356, which has been used for years as orthopedic implant material. Zirconia is an ideal material for making implants. Compared to aluminum oxide and titanium, zirconia possesses superior mechanical properties that make it stronger, less brittle, resist to fracture and deformation.

The patent advanced ceramic technologies of Coho enable ZiBone to be produced to high precision, and make its surface nanoporous that induces osseointegration better than other titanium implants.

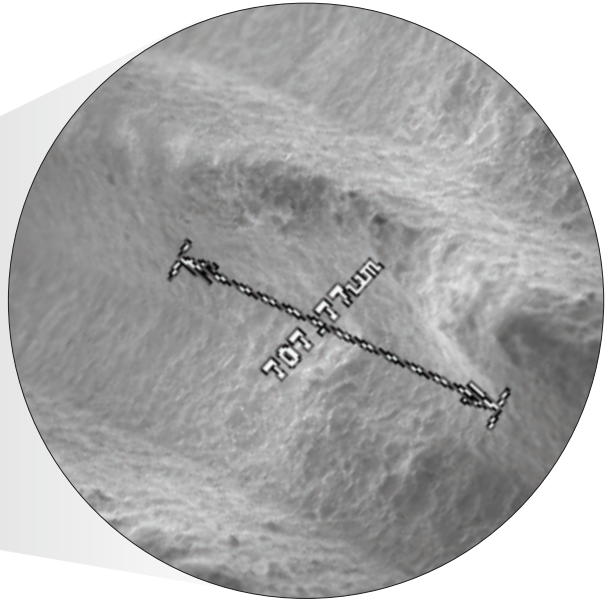
The cylindrical body and conical tip design enables ZiBone to achieve the highest possible primary stability. The fine neck thread increases the bone contact area and initial stability. Threads in the implant body and wide pitch design provide stability and promote osseointegration.



Optimal abutment design for CAD/CAM prosthetics

One-piece design eliminates micro gap to prevent bone loss

Bone chip reservation groove



Roughened surface enhances osseointegration

## ZiBone Causes No Metallic Allergy

Studies clearly demonstrate that titanium can induce clinically relevant hypersensitivity to some patients. However, zirconia is biocompatible and causes no metal allergy. ZiBone zirconia implants and instruments are made of zirconia, offering a metal free treatment.

## ZiBone Meets Esthetic Demand

Nowadays patients are not merely satisfied with the function of restorations but also their esthetic results. They want to avoid embarrassing smiles. ZiBone is designed to meet this growing demand. ZiBone is white color. It does not show dark shadow in thin soft tissue or dark margin when gum line retreats as mostly found in treatments with titanium implants. Besides that, when zirconia crown/bridge is used on ZiBone, the whole restorations look more natural and esthetic as zirconia allows light to pass through like natural tooth. Metal blocks passage of light.



Same day immediate temporization

## ZiBone's One-Piece Design Simplifies Procedure

ZiBone's one-piece implant design does not require a separate abutment. It can simplify the procedure and shorten clinical time that is required in two-stage technique. Needless to say, it makes life easy for both patients and dental professionals.

## ZiBone Enhances Long-Term Clinical Success

### Reduce Chance of Peri-implantitis

Peri-implantitis has been one of the main causes of implant failure. ZiBone is designed to reduce this possibility. Thanks to its one-piece design which has no micro-gaps between fixture and abutment. It can prevent pathogenic bacteria from colonization. On top of it, its smooth neck surface makes it less susceptible to the accumulation of pathogenic bacteria. Zirconia is known to be tissue friendly. Soft tissue attaches more readily to ceramic implants forming protection against penetration of pathogenic bacteria that causes peri-implantitis.



Excellent esthetics without metal colour

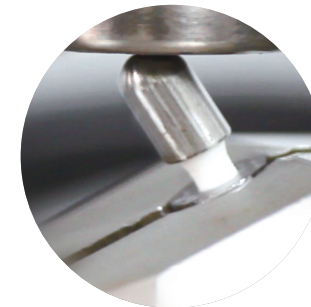
## High Bone-Implant Contact

Studies have shown that zirconia integrates with bone tissue similar to titanium. Early loading is possible due to its one-piece design when bone conditions allow.



## Superior Mechanical Properties

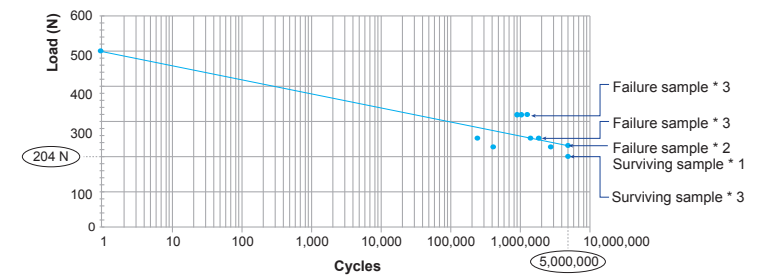
ZiBone has been subject to various tests to verify its performance under different mechanical conditions. The results show that ZiBone has mechanical properties superior to titanium and aluminum oxide. It means that ZiBone performs well in clinical situations.



5 million cycles fatigue testing

## Quality Guarantee

	Physical Properties	Requirements
1	4-Point Flexural Strength	$\geq 800$ MPa
2	Fatigue Strength (5,000,000 Cycles)	$\geq 320$ MPa
3	Radiation	0.0043 Bq/g
4	High Biocompatibility	Conform to ISO 7405

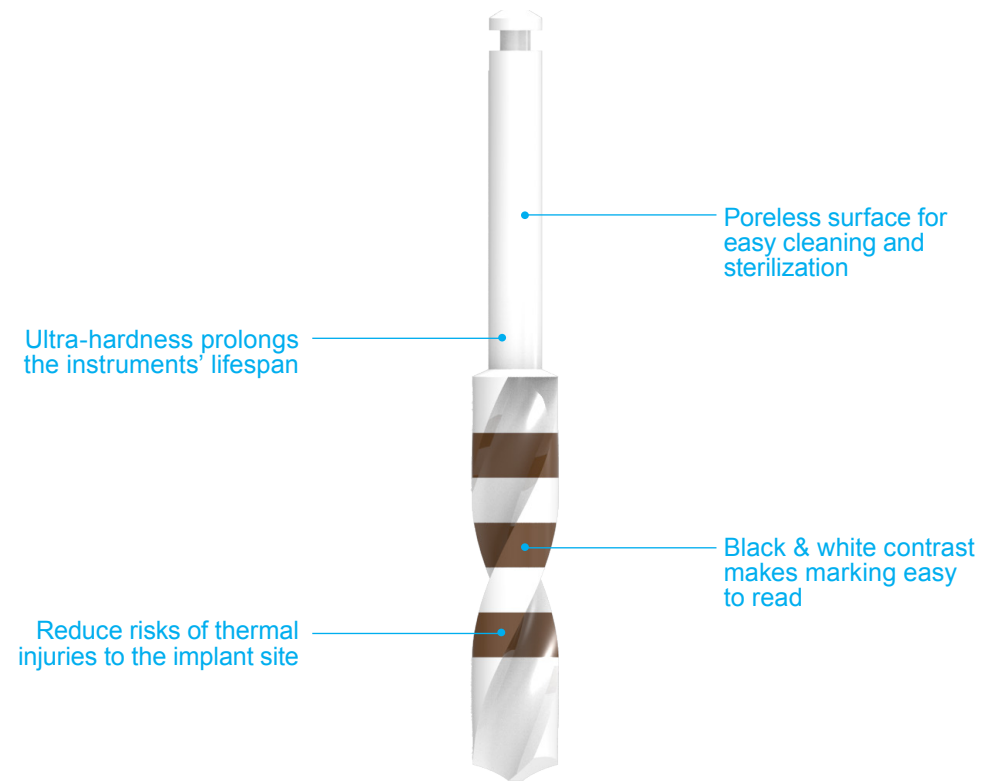


ISO 14801 Fatigue Testing

# Implant Drills

## ZiBone Implant Drills

ZiBone implant drills are made from the same zirconia material as ZiBone implants. Its hardness is only second to diamond, which makes them wear resistance. The sharp blades also minimize heat generation during osteotomy, preventing excessive thermal damage to bone tissue, resulting in a faster bone recovery process. Ceramic surgical tools also have the advantage of high biocompatibility, rust-free, and easy cleaning and disinfection.



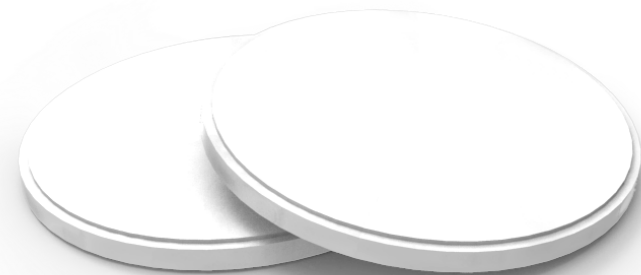
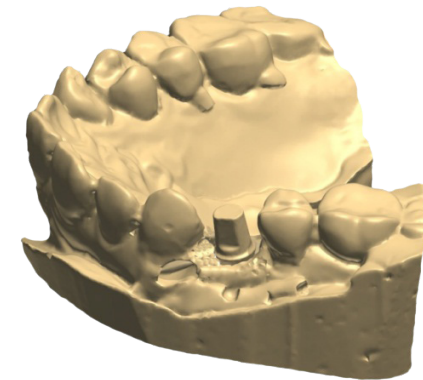


# CAD/CAM Dentistry



## CAD/CAM Dentistry

Digitization and the advent of high-performance zirconia material make the fabrication of prostheses more automated. To provide full services and total esthetic solutions to the dental professionals, Coho's milling centers design and manufacture prostheses from scanned images, saving time and increasing accuracy for our esteemed customers.



# Pediatric Crowns



## ZiBone Pediatric Crowns

Zibone Pediatric crowns made by FDA certified Zirconia material. Zirconia is a proven biocompatible material in the human body. The color is natural white similar to human teeth. In adult dentistry, zirconia crowns have been shown to be exceptionally durable.

When restoring badly broken-down primary incisors and molars, pediatric dentists have several options that have been in use much longer than zirconia crowns, including stainless steel, and bonded resin strip crowns. But Zirconia Pediatric crowns have good looking compare to stainless steel and avoid the bad odor like resin strip crowns.

The esthetic superiority, coupled with unmatched durability, biocompatibility, and many other advantages, make zirconia crowns an excellent option for nearly all primary anterior crown restorations and for many posterior crown restorations as well.

# ZiBone™ Products

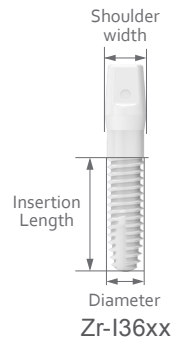
## Specifications

Maxillary lateral incisor		Maxillary central incisor		Maxillary central incisor		Maxillary lateral incisor	
<u>B5</u> $\overline{\text{MD}}$ 6.6	<u>B2</u> $\overline{\text{MD}}$ 5.0	<u>A5</u> $\overline{\text{MD}}$ 8.1	<u>A2</u> $\overline{\text{MD}}$ 6.6	<u>A2</u> $\overline{\text{MD}}$ 6.6	<u>A5</u> $\overline{\text{MD}}$ 8.1	<u>B2</u> $\overline{\text{MD}}$ 5.0	<u>B5</u> $\overline{\text{MD}}$ 6.6
<u>B6</u> $\overline{\text{MD}}$ 6.6	<u>B3</u> $\overline{\text{MD}}$ 5.8	<u>A6</u> $\overline{\text{MD}}$ 8.1	<u>A3</u> $\overline{\text{MD}}$ 7.3	<u>A3</u> $\overline{\text{MD}}$ 7.3	<u>A6</u> $\overline{\text{MD}}$ 8.1	<u>B3</u> $\overline{\text{MD}}$ 5.8	<u>B6</u> $\overline{\text{MD}}$ 6.6
<u>B7</u> $\overline{\text{MD}}$ 7.4	<u>B4</u> $\overline{\text{MD}}$ 5.8	<u>A7</u> $\overline{\text{MD}}$ 8.6	<u>A4</u> $\overline{\text{MD}}$ 7.3	<u>A4</u> $\overline{\text{MD}}$ 7.3	<u>A7</u> $\overline{\text{MD}}$ 8.6	<u>B4</u> $\overline{\text{MD}}$ 5.8	<u>B7</u> $\overline{\text{MD}}$ 7.4

Maxillary 2nd primary molar		Maxillary 1st primary molar		Maxillary 1st primary molar		Maxillary 2nd primary molar	
<u>E5</u> $\overline{\text{MD}}$ 10.6	<u>E2</u> $\overline{\text{MD}}$ 9.2	<u>D5</u> $\overline{\text{MD}}$ 7.7	<u>D2</u> $\overline{\text{MD}}$ 6.5	<u>D2</u> $\overline{\text{MD}}$ 6.5	<u>D5</u> $\overline{\text{MD}}$ 7.7	<u>E2</u> $\overline{\text{MD}}$ 9.2	<u>E5</u> $\overline{\text{MD}}$ 10.6
<u>E6</u> $\overline{\text{MD}}$ 10.9	<u>E3</u> $\overline{\text{MD}}$ 9.8	<u>D6</u> $\overline{\text{MD}}$ 7.8	<u>D3</u> $\overline{\text{MD}}$ 7.4	<u>D3</u> $\overline{\text{MD}}$ 7.4	<u>D6</u> $\overline{\text{MD}}$ 7.8	<u>E3</u> $\overline{\text{MD}}$ 9.8	<u>E6</u> $\overline{\text{MD}}$ 10.9
<u>E7</u> $\overline{\text{MD}}$ 11.2	<u>E4</u> $\overline{\text{MD}}$ 10.2	<u>D7</u> $\overline{\text{MD}}$ 8.3	<u>D4</u> $\overline{\text{MD}}$ 7.4	<u>D4</u> $\overline{\text{MD}}$ 7.4	<u>D7</u> $\overline{\text{MD}}$ 8.3	<u>E4</u> $\overline{\text{MD}}$ 10.2	<u>E7</u> $\overline{\text{MD}}$ 11.2

Mandibular 2nd primary molar		Mandibular 1st primary molar		Mandibular 1st primary molar		Mandibular 2nd primary molar	
<u>E5</u> $\overline{\text{MD}}$ 10.8	<u>E2</u> $\overline{\text{MD}}$ 9.6	<u>D5</u> $\overline{\text{MD}}$ 9.1	<u>D2</u> $\overline{\text{MD}}$ 7.7	<u>D2</u> $\overline{\text{MD}}$ 7.7	<u>D5</u> $\overline{\text{MD}}$ 9.1	<u>E2</u> $\overline{\text{MD}}$ 9.6	<u>E5</u> $\overline{\text{MD}}$ 10.8
<u>E6</u> $\overline{\text{MD}}$ 11.2	<u>E3</u> $\overline{\text{MD}}$ 10	<u>D6</u> $\overline{\text{MD}}$ 10	<u>D3</u> $\overline{\text{MD}}$ 8.4	<u>D3</u> $\overline{\text{MD}}$ 8.4	<u>D6</u> $\overline{\text{MD}}$ 10	<u>E3</u> $\overline{\text{MD}}$ 10	<u>E6</u> $\overline{\text{MD}}$ 11.2
<u>E7</u> $\overline{\text{MD}}$ 11.7	<u>E4</u> $\overline{\text{MD}}$ 10.3	<u>D7</u> $\overline{\text{MD}}$ 10	<u>D4</u> $\overline{\text{MD}}$ 8.8	<u>D4</u> $\overline{\text{MD}}$ 8.8	<u>D7</u> $\overline{\text{MD}}$ 10	<u>E4</u> $\overline{\text{MD}}$ 10.3	<u>E7</u> $\overline{\text{MD}}$ 11.7

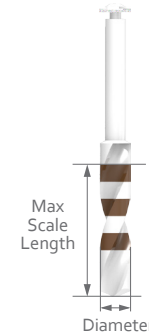
# Specifications



## Zirconia Dental Implant

Model Name	Diameter	Shoulder Width	Insertion Length	Final Drill
Zr-I3608	Ø3.6	4.1	8.0	2.8
Zr-I3610	Ø3.6	4.1	10.0	2.8
Zr-I3611	Ø3.6	4.1	11.5	2.8
Zr-I3613	Ø3.6	4.1	13.0	2.8
Zr-I3614	Ø3.6	4.1	14.5	2.8

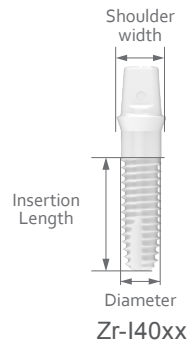
(Unit:mm)



## Twist Drill

Model Name	Diameter	Max Scale Length
Zr-D2316	Ø2.3	16
Zr-D2816	Ø2.8	16
Zr-D3416	Ø3.4	16
Zr-D3816	Ø3.8	16
Zr-D4316	Ø4.3	16

(Unit:mm)



## Zirconia Dental Implant

Model Name	Diameter	Shoulder Width	Insertion Length	Final Drill
Zr-I4008	Ø4.0	4.1	8.0	3.4
Zr-I4010	Ø4.0	4.1	10.0	3.4
Zr-I4011	Ø4.0	4.1	11.5	3.4
Zr-I4013	Ø4.0	4.1	13.0	3.4
Zr-I4014	Ø4.0	4.1	14.5	3.4

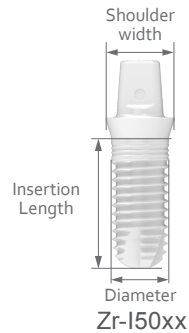
(Unit:mm)



## Healing Cap

Model Name	Diameter	Applicable Implant
PK-H3665	Ø6.5	Zr-136xx
PK-H4070	Ø7.0	Zr-140xx
PK-H5075	Ø7.5	Zr-150xx

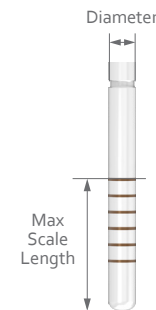
(Unit:mm)



## Zirconia Dental Implant

Model Name	Diameter	Shoulder Width	Insertion Length	Final Drill
Zr-I5008	Ø5.0	6.0	8.0	4.3
Zr-I5010	Ø5.0	6.0	10.0	4.3
Zr-I5011	Ø5.0	6.0	11.5	4.3
Zr-I5013	Ø5.0	6.0	13.0	4.3
Zr-I5014	Ø5.0	6.0	14.5	4.3

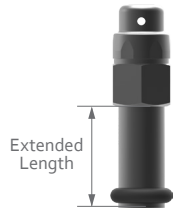
(Unit:mm)



## Depth Gauge

Model Name	Diameter	Max Scale Length
Zr-G2316	Ø2.3	16
Zr-G2816	Ø2.8	16
Zr-G3416	Ø3.4	16

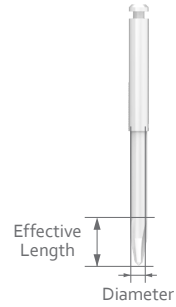
(Unit:mm)



### Implant Adaptor

Model Name	Extended Length
Me-A4815	4.5
Me-A4821	10.5

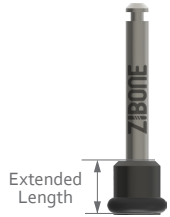
(Unit:mm)



### Point Drill

Model Name	Diameter	Effective Length
Zr-P2017	Ø2.0	5

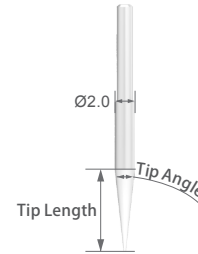
(Unit:mm)



### Implant Driver

Model Name	Extended Length
Me-D4822	6
Me-D4825	9

(Unit:mm)

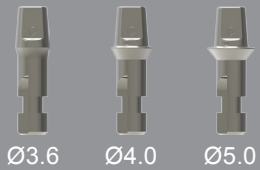


### Soft Tissue Trimmer

Model Name	Tip Length	Tip Angle
Zr-V2045	4.5	20
Zr-V2055	5.5	20
Zr-V2085	8.5	12

(Unit:mm)

## Other Products



Metal Implant Analog



Impression Cap



Drill Extension

Torque Wrench



Ceramic Forceps



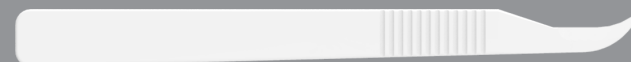
Ceramic Periosteal Elevator



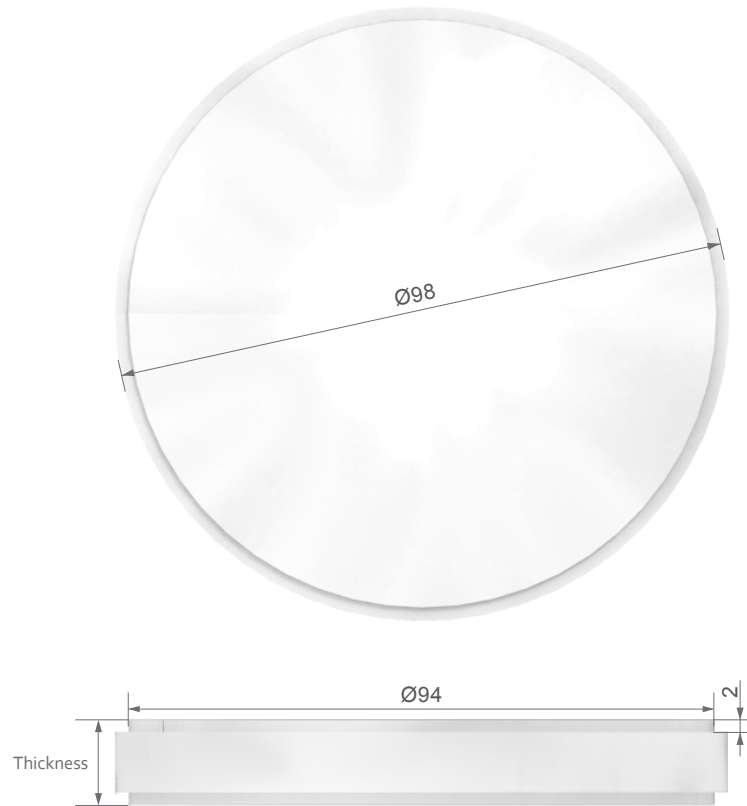
Ceramic Scalpel No15.



Ceramic Scalpel No12.



# CAD/CAM Dentistry



Model Name	Series	Thickness
Zr-B9812	Low Translucent	12
Zr-B9814		14
Zr-B9816		16
Zr-B9818		18
Zr-B9820		20
Zr-A9812	Super Transparent (white)	12
Zr-A9814		14
Zr-A9816		16
Zr-A9818		18
Zr-A9820		20
Zr-C9812	Super Transparent (color)	12
Zr-C9814		14
Zr-C9816		16
Zr-C9818		18
Zr-C9820		20

(Unit:mm)





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