

Preparation Guidelines

GENERAL PREPARATION GUIDELINES FOR ALL-CERAMIC RESTORATIONS SHOULD BE FOLLOWED (FIG. 1 & 2):

1. Preparation should follow the anatomy of the tooth, providing at least the minimum thickness required for the respective restoration (Table 1). A 1.0 mm axial and occlusal reduction is considered ideal for full contour zirconia restorations.
2. A definitive finish line (shoulder with rounded internal line angles or chamfer) is recommended. Feather edge preparations are acceptable.
3. All sharp edges and line angles should be rounded.

TABLE 1

Minimum Zirconia Thickness - Crowns

Anterior		Crowns
Axial		0.5 mm
Incisal/Occlusal		0.5 mm
Connector Dimensions		n/a
Posterior		Crowns
Axial		0.5 mm
Incisal/Occlusal		0.5 mm
Connector Dimensions		n/a

Minimum Zirconia Thickness - Bridges

Anterior	3-Unit	≥4 units with max 2 connected pontics		Cantilever with 1 pontic
Axial	0.5 mm	0.7 mm	0.7 mm	0.7 mm
Incisal/Occlusal	0.7 mm	1.0 mm	1.0 mm	1.0 mm
Connector Dimensions	7 mm ²	9 mm ²	12 mm ²	12 mm ²
Posterior				
Axial	0.5 mm	0.7 mm	0.7 mm	0.7 mm
Incisal/Occlusal	0.7 mm	1.0 mm	1.0 mm	1.0 mm
Connector Dimensions	9 mm ²	12 mm ²	12 mm ²	12 mm ²

Ideal Chamfer Margins

FIGURE 1

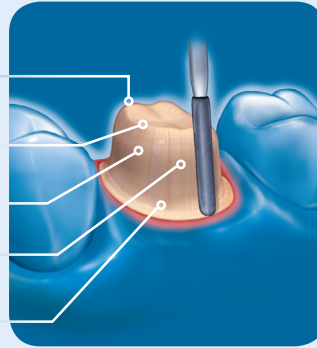
Occlusal reduction
1.0 mm ideal
0.5 mm minimum

Rounded internal line angles

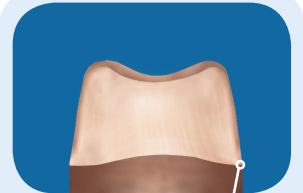
Taper between 4° and 8°

Axial reduction
0.5 mm to 1.5 mm

Reduction of ≥ 0.5 mm at gingival margin



Feather Edge Margin



Feather edge margin
≥ 0.5 mm gingival reduction

FIGURE 2

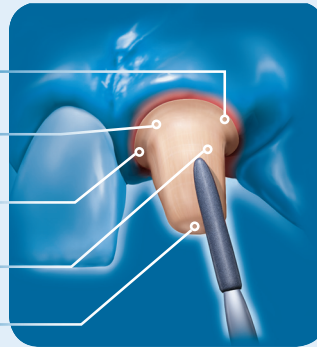
Chamfer/shoulder preparation or feather edge

Rounded internal line angles

Reduction of ≥ 0.5 mm at gingival margin

Axial reduction
0.5 mm to 1.5 mm

Incisal reduction
0.5 mm to 2.0 mm



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