

Abstract

[Object] To provide a cutter wheel which allows for stable formation of a scribe line with high precision even in the case where the thickness of a brittle material substrate is small, as well as a method for scribing a brittle material substrate using the same.

[Means for Achieving Object] A cutter wheel for scribing a brittle material substrate is provided, where a ridge line in a V shape is formed along the circumference of a wheel in a disc form as a blade edge, a number of protrusions in a predetermined form are formed at approximately equal intervals along the above described ridge line, the outer diameter of the wheel is 1.0 mm to 2.5 mm, the above described protrusions are formed around the entirety of the above described ridge line with a pitch of 8 μm to 35 μm , the height of the above described protrusions is 0.5 μm to 6.0 μm , and the angle of the blade edge is 85 ° to 140 °.