

ABSTRACT

To provide a metal plate molded article with high vibration damping functionality, a noise-reduction brake disc using the same, and a manufacturing method of a metal plate molded article.

A brake disc 20 is composed of a metal plate molded article including an inner member 31 composed of a metal plate and an outer member 32 composed of a metal plate and fitted onto the inner member 31, wherein a friction damping surface 30 is formed in press-contact with fitted surfaces of the inner member 31 and the outer member 32. The brake disc 20 includes a hub part 22 with a plurality of attachment holes 29 into which attachment bolts to a wheel are inserted, and an annular sliding part 21 with a sliding surface 21a with which a brake pad BP is brought into press-contact. The friction damping surface 30 is provided to surround the attachment holes 29 individually or collectively. The inner member 31 and the outer member 32 are formed inside and outside the friction damping surface 30.

Selected Drawing Fig. 7