

ABSTRACT

There is provided a cobalt-based alloy product comprising: in mass %, 0.08-0.25% C; 0.1% or less B; 10-30%
5 Cr; 5% or less Fe and 30% or less Ni, the total amount of Fe and Ni being 30% or less; W and/or Mo, the total amount of W and Mo being 5-12%; Ti, Nb and Ta, the total amount of Ti, Nb and Ta being 0.5-2%; 0.5% or less Si; 0.5% or less Mn; 0.003-0.04% N; and the balance being Co and impurities.
10 The impurities include 0.5% or less Al, less than 0.05% Zr, and 0.04% or less O. The product is a polycrystalline body of matrix phase crystal grains. In the matrix phase crystal grains, segregation cells with an average size of 0.13-2 μm are formed, in which components constituting an MC type
15 carbide phase comprising Ti, Nb and/or Ta are segregated in boundary regions of the segregation cells.

(FIG. 2)