

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%; 0.5% or less Si; 0.5% or less Mn; 0.003-0.04% N; 0.5 to 2 mass % of an M component being a transition metal other than W and Mo and having an atomic
10 radius of more than 130 pm; and the balance being Co and impurities. The impurities include 0.5% or less Al 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
15 are formed, in which the M component is segregated in boundary regions of the segregation cells.

(FIG. 2)