

ABSTRACT OF THE DISCLOSURE

ALLOY FOR OVERLAY WELDING, POWDER FOR WELDING, AND REACTION TUBE

The present invention provides an alloy for overlay welding with
5 which an alumina barrier layer containing an Al oxide can be formed on a
projection that is overlay welded on an inner surface of a reaction tube,
powder for welding, and a reaction tube having a projection that is overlay
welded on the inner surface as a stirring member.

An alloy for overlay welding according to the present invention is an
10 alloy for overlay welding that is to be used in overlay welding, and the alloy
contains C in an amount of 0.2 mass% to 0.6 mass%, Si in an amount of more
than 0 mass% to 1.0 mass%, Mn in an amount of more than 0 mass% to 0.6
mass% or less, Cr in an amount of 25 mass% to 35 mass%, Ni in an amount of
35 mass% to 50 mass%, Nb in an amount of 0.5 mass% to 2.0 mass%, Al in an
15 amount of 3.0 mass% to 6.0 mass%, Y in an amount of 0.005 mass% to 0.05
mass%, and Fe and inevitable impurities as a remaining portion.

FIG. 1