HARDBANDING ALLOY

ABSTRACT

The present disclosure relates to an alloy, for hardbanding and/or hard overlay applications, which is abrasion resistant to the order of siliceous earth particles and weldable in crack free state on industrial products. The alloy is a carbon chrome based alloy comprising titanium and vanadium carbides and thus has an extremely low coefficient of friction, high abrasion resistance as welded without working. In tool joints and stabilizers, the alloy achieves an optimum balance between tool joint and stabilizer wear resistance and induced casing wear. The alloy is also self-shielded and therefore does not require external shielding gas.