

Title (en)

WELLBORE ISOLATION DEVICE MADE FROM A POWDERED FUSIBLE ALLOY MATRIX

Title (de)

BOHRLOCHISOLIERUNGSVORRICHTUNG AUS EINER PULVERFÖRMIGEN SCHMELZBAREN LEGIERUNGSMATRIX

Title (fr)

DISPOSITIF D'ISOLATION DE Puits DE FORAGE FABRIQUÉ À PARTIR D'UNE MATRICE D'ALLIAGE FUSIBLE EN POUDRE

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Abstract (en)

The present invention provides a method of producing at least a portion of a wellbore isolation device, the method comprising providing a fusible alloy matrix in a powdered form; placing at least the particles of the fusible alloy matrix powder into a mold; compacting the particles located inside the mold via an application of pressure; and fusing the particles together to form a solid material, wherein the solid material forms the at least a portion of a wellbore isolation device; wherein the metal of the fusible alloy is selected from lead, tin, bismuth, indium, cadmium, silver, gallium, zinc, antimony, copper, and combinations thereof; and wherein at least one phase of the fusible alloy matrix has a melting point below 250°C.

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