

New method of precision welding of aluminum and its alloys

The method provides the production of precision connections by diffusion welding from aluminum and its alloys based on the usage of transitional layer consisted of sodium silicate, hydrogen chloride and finely divide magnum powder.

THE FIELDS OF USAGE:

- Instrument Construction;
- Machine Construction;

THE MAIN PECULIARITIES AND ADVANTAGES:

- precision of welding connection;
- the possibility to produce the productions of complex space configuration and thinwalled productions;
- minimal positive tolerances for the producing of details;
- the high level of thickness and plasticity of compound properties;
- the high operational temperature of connections;
- minimal capacity of preparative operations before the welding;
- the raise of production of a technological process of diffusion welding in vacuum;
- the decline in the prime cost of the producing.



THE TYPICAL WELDING CONSTRUCTIONS:

The elements of heat transfers

