

The invention relates to the ferrous metallurgy, machine engineering, in particular to the composition of high heat resistant die steel being used for manufacturing punching tools and pressure casting moulds of non-ferrous metals by methods of metallurgical reprocessing and casting technology of electrosag chill casting. A high heat resistant die steel contains, % by weight : 0.2-0.4 of carbon, 1.2-1.5 of manganese, 0.01-0.15 of silicon, 5.0-7.0 of chrome, 0.8-1.1 of molybdenum, 0.5-1.5 of vanadium , 0.06-0.15 of nitrogen, 0.005-0.02 of aluminium. 0.005-0.01 of titanium, 0.05-10.0 of tungsten, and iron is the rest. The invention provides an increase of heat resistance, impact strength, hot crack resistance and heat resistance of nitrided diffuse layer during the chemical and thermal treatment of articles thereof.