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**Extrusion forming specifications of titanium and titanium alloy
electrodes**

钛及钛合金自耗电电极挤压成形规范

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

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Specification for extrusion forming of titanium and titanium alloy consumable electrodes

1 Scope

This document specifies the process equipment composition, raw material requirements, extrusion process, operation requirements, inspection and testing of titanium and titanium alloy consumable electrodes extrusion forming. Check, record and store.

This document applies to the extrusion forming of titanium and titanium alloy consumable electrodes.

2 Normative references

GB/T 2524-2019

GB/T 8541

3 Terms and definitions

The terms and definitions defined in GB/T 8541 and the following apply to this document.

3.1 Rod material composed of materials

For use in the vacuum consumable arc melting process (VAR) to melt titanium and titanium alloy ingots, with titanium sponge, titanium material return and alloy addition

3.2 Extrusion

The blank is subjected to three-dimensional non-uniform compressive stress in the closed mold cavity and is extruded from the orifice or gap of the mold, which reduces its cross-sectional area and becomes The processing method of the desired product.

[Source. GB/T 8541-2012, 3.1.22]

3.3 Unit extrusion pressure

The pressure per unit area of the extrusion rod (extrusion punch).

[Source. GB/T 8541-2012, 8.20.1]

3.4 Extrusion container

A container that holds the extruded blank during the extrusion process.

3.5 Remainder

At the end of extrusion, there is no blank extruded out of the die.

[Source. GB/T 8541-2012, 8.23, modified]

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