

ISO 16468:2025-05 (E)

Investment castings (steel, nickel alloys and cobalt alloys) - General technical requirements

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Materials and manufacture	2
4.1	Melting process	2
4.2	Remelting process	2
5	Inspection and testing	2
5.1	General requirements	2
5.2	Sampling	2
6	Retests	7
7	Cleaning and dressing	8
8	Quality	8
9	Production welds	8
10	Supplementary requirements	8
10.1	General	8
10.2	Agreed manufacturing procedure	8
10.3	Magnetic particle inspection	8
10.4	Radiographic inspection	8
10.5	Liquid penetrant inspection	8
10.6	Ultrasonic inspection	9
10.7	Inspection of weld preparation	9
10.8	Prior agreement relating to major finishing welds	9
10.9	Impact test at low temperatures	9
10.10	Hardness test	9
10.10.1	Brinell	9
10.10.2	Rockwell	9
10.10.3	Vickers	9
10.11	Specified ferrite range in austenitic and austenitic ferritic stainless steels	9
10.12	Unspecified elements	9
10.13	Test material removed from castings	10
10.14	Tensile test blocks and specimen locations for castings	10
10.15	Weld maps (sketches)	10
10.16	Chemical analysis -- Testing frequency	10
10.17	Tensile test -- Testing frequency	10
10.18	Inspection documents	10
10.19	Marking	10
10.20	Decarburization	10
10.21	Metallurgical cleanliness	10
Bibliography		11