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**Gas welding equipment - Hose assemblies for equipment for
welding, cutting and allied processes**

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Foreword

This document is drafted in accordance with GB/T 1.1-2020 "Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents".

This document modifies and adopts ISO 8207:1996 "Gas welding equipment - Specification for hose assemblies for equipment for welding, cutting and allied processes".

Compared with ISO 8207:1996, this document has more adjustments in structure. See Appendix A for the comparison list of structure number changes between the two documents.

Compared with ISO 8207:1996, this document has many technical differences. The outer margins of the clauses involved are marked with a vertical single line (?). See Appendix B for a list of these technical differences and their reasons.

The following editorial change has been made to this document:

- Add an introduction of Appendix C in the main text (see 4.3).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. The issuing authority of this document shall not be held responsible for identifying any or all such patent rights.

This document was proposed by and shall be under the jurisdiction of National Technical Committee 55 on Welding of Standardization Administration of China (SAC/TC 55).

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Gas welding equipment - Hose assemblies for equipment for welding, cutting and allied processes

1 Scope

This document specifies performance and test requirements for hose assemblies for equipment for welding, cutting and allied processes.

This document applies to rubber hose assemblies used in gas circuit assemblies for equipment for welding, cutting and allied processes. It does not apply to hose assemblies in the gas pipeline upstream of pressure reducer.

2 Normative references

The contents of the following documents, through normative references in this text, constitute indispensable provisions of this document. Among them, for dated references, only the edition corresponding to that date applies to this document. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 2550 Gas welding equipment - Rubber hoses for welding, cutting and allied processes (ISO 3821:2008, IDT)

GB/T 3375 Welding terminology

GB/T 5107 Gas welding equipment - Hose connections for equipment for welding, cutting and allied processes

GB/T 40371 Gas welding equipment - Materials for equipment used in gas welding, cutting and allied processes (ISO 9539:2010, MOD)

GB/T 40337 Gas tightness of equipment for gas welding and allied processes (ISO 9090:2019, MOD)

3 Terms and definitions

The terms and definitions defined in GB/T 3375 and the following ones apply to this document.

3.1

Hose assembly

treatment.

4.2 Finishing material

Paint applied on the outside of the equipment shall be prevented from entering its gas piping.

When making hose assembly connections, it shall not use viscous lubricants or filler pastes, etc. to lubricate the hose tail or the hose.

4.3 Hose connection

The hose tail shall match the hose and be fastened by the hose clamp. See Appendix C

for recommended hose tail sizes.

When assembling and tightening the various parts of hose assembly, it shall properly adjust the mutual position of the hose clamp and the hose tail, to prevent damage to the hose lining.

When making connections, the outside of the hose shall be free from cuts, abrasions or any other damage. The inside of the hose shall be free of dirt, talcum powder, rubber chips, or other debris and impurities that may interfere with proper airflow and safe operation of the equipment.

Hose clamps shall not be protruding or sharp, to prevent operator injury.

5 Operating guidelines

The physical strength and comprehensive safety performance of hose assemblies shall meet the requirements of Clause 6.

6.1 General requirements

The tests specified in this clause shall only be applicable to type tests.

Note: The tests specified in this clause are only applicable to type tests. The tests specified in this

clause are suitable for quality control checks; are not a production test procedure for all hose

connections and hose assemblies.

6.2.1 General requirements

When tested in accordance with GB/T 40337, the leakage rate of hose assembly shall

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