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AMENDMENT 1
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**Gas welding equipment — Materials
for equipment used in gas welding,
cutting and allied processes —**

AMENDMENT 1

*Matériel de soudage aux gaz — Matériaux utilisés pour le matériel de
soudage aux gaz, coupage et techniques connexes —*

AMENDEMENT 1

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ISO 9539:2010/Amd 1:2013

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The committee responsible for this document is ISO/TC 44, *Welding and allied processes*, Subcommittee SC 8, *Equipment for gas welding, cutting and allied processes*.

Requests for official interpretations of any aspect of this Amendment should be directed to the Secretariat of ISO/TC 44/SC 8 via your national standards body. A complete listing of these bodies can be found at www.iso.org.

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Page 1, Clause 2

Update the title of ISO 1817

ISO 1817, *Rubber, vulcanized or thermoplastic — Determination of the effect of liquids*

Page 2, 4.2.1

The original wording of ISO 9539:2010 could be interpreted in two ways. It was not clear if there shall be a measurement after test steps a), b) ,and c), respectively, or if there shall be only one measurement after test step c). This amendment specifies a clear procedure.

Replace the existing text with the following.

Non-metallic materials (e.g. those used for seals and lubricants) liable to come into contact with acetylene shall be adequately resistant individually to acetone and dimethylformamide (DMF) solvents.

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Non-metallic materials (e.g. those used for seals and lubricants) liable to come into contact with propane, butane and methylacetylene-propadiene mixtures shall be adequately resistant to *n*-pentane.

For the purposes of this International Standard, the term “adequate resistance” (to solvents) will be taken to mean that the material shall fulfill the following conditions.

The change in mass shall not exceed ± 15 % and the change in hardness shall not exceed ± 15 IRHD after the material has been conditioned as follows:

- a) (168 ± 2) h in an atmosphere saturated with solvent as specified above at (23 ± 2) °C;
- b) a subsequent period in air for (70 ± 2) h at (40 ± 2) °C;
- c) a subsequent period (24 ± 2) h at standard atmosphere 23/50 as specified in ISO 554.

The measurement of change of mass and hardness shall be carried out after test step c) in accordance with ISO 1817.

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