SLOVENSKI STANDARD
SIST EN ISO 11114-3:1999/AC:1999

01-januar-1999

Plinske jeklenke - Združljivost materialov za ventil in jeklenko s plinom - 3. del: Preskus samovžiga v kisikovi atmosferi - Dopolnilo AC (ISO 11114-3:1997)

Transportable gas cylinders - Compatibility of cylinder and valve materials with gas contents - Part 3: Autogenous ignition test in oxygen atmosphere (ISO 11114-3:1997)

Ortsbewegliche Gasflaschen - Verträglichkeit von Werkstoffen für Gasflaschen und Ventile mit den in Berührung kommenden Gasen - Teil 3: Prüfung der Selbstentzündungstemperatur in sauerstoffhaltiger Atmosphäre (ISO 11114-3:1997)

Bouteilles a gaz transportables - Compatibilité des matériaux des bouteilles et des robinets avec les contenus gazeux - Partie 3: Essai d'auto-inflammation sous atmosphere d'oxygene (ISO 11114-3:1997)

Ta slovenski standard je istoveten z: EN ISO 11114-3:1997/AC:1998

ICS:

13.220.40	Sposobnost vžiga in obnašanje materialov in proizvodov pri gorenju	Ignitability and burning behaviour of materials and products
23.020.30	Tlačne posode, plinske jeklenke	Pressure vessels, gas cylinders

SIST EN ISO 11114-3:1999/AC:1999 en

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 11114-3:1997/AC

April 1998
Avril 1998
April 1998

English version
Version Française
Deutsche Fassung

Transportable gas cylinders - Compatibility of cylinder and valve materials with gas contents - Part 3: Autogenous ignition test in oxygen atmosphere (ISO 11114-3:1997)

Bouteilles à gaz transportables - Compatibilité des matériaux des bouteilles et des robinets avec les contenus gazeux - Partie 3: Essai d'auto-inflammation sous atmosphère d'oxygène (ISO 11114-3:1997)

Ortsbewegliche Gasflaschen - Verträglichkeit von Werkstoffen für Gasflaschen und Ventile mit den in Berührung kommenden Gasen - Teil 3: Prüfung der Selbstentzündungstemperatur in sauerstoffhaltiger Atmosphäre (ISO 11114-3:1997)

This corrigendum becomes effective on 2 April 1998 for incorporation in the three official language versions of the EN.

Ce corrigendum prendra effet le 2 avril 1998 pour incorporation dans les trois versions linguistiques officielles de la EN.

Die Berichtigung tritt am 2.April 1998 in Kraft zur Einarbeitung der drei offiziellen Sprachfassungen der EN einzufügen.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Contents

In the list of contents, replace the last line with the following text:

'Annex ZZ (informative) Corresponding International and European Standards for 13
which equivalents are not given in the text'

Foreword

Insert 2 new paragraphs after the existing paragraph 1 as follows:

'The text of the draft standard was submitted to the Formal Vote and was approved by CEN as EN ISO 11114-3 on 97-09-18

This European Standard has been submitted for reference into the RID and/or in the technical annexes of the ADR.'

Clause 3

In the Note, correct the 2nd sentence to read:

'A sample of 0,5g in a test cell volume of between 30 cm^3 and 250 cm^3 has been.....'

Clause 4

In the 2nd paragraph, correct the 2nd sentence to read

'The thermocouple shall have an accuracy of ±2 °C between 25 °C and 500 °C'

In the Note, line 4, replace '10 MPa' with '10 MPa (100 bar)'.

Clause 6

In paragraph 1, line 4, replace '10 bar' with '1 MPa (10 bar)'.

Clause 7

In Note 2 and Note 3, change the term 'Δ_p' to 'Δp' (2 times)

Annexes

Replace Annex B with the corrected text as following pages 3-5.

Add a new annex ZZ with text as on the following page 6.

Annex B (informative)

Bibliography

1. Gunter, M., "Ignition in High-Pressure Oxygen," Ministry of Supply, S&T Memo No. 13/50, British Oxygen Company, London 1950.

2. Crockett, A. H., "Further Data on the Compatibility of Materials in Oxygen Under Pressure," British Oxygen Research and Development Limited, R&D Report 2272, British Oxygen Company, London 1957.

3. Nihart, G. J. and Smith, C. P;, "Compatibility of Materials with 7500 PSI Oxygen," DDC AD 608260, ARML-TDR-64-76, Union Carbide Corporation, Linde Division, Tonawanda, NY, Oct. 1964.

4. Marzani, J. A., "Spontaneous Ignition of Solid Materials at Elevated Pressures," presented at the Eastern Section (Provisional), The Combustion Institute Symposium on Heterogenous Combustion, Oct. 1968.

5. Keeping, W. O., "Ignition of Materials in Gaseous Oxygen," BOC Report 3875, British Oxygen Company, London, 1969.

6. Attwood, H. C. and Allen, G. R., "On the Spontaneous Ignition Temperature of Organic Materials in Oxygen," Royal Aircraft Establishment Technical Report 70083, Ministry of Defence, Farnborough, United Kingdom, May 1970.

7. Lapin, A., "Oxygen Compatibility of Materials," Reliability and Safety of Air Separation Plant, Annex 1973-1 to Bulletin de l'Institut International du Froid, pp. 79-94.

8. McQuaid, R. W., Sheets, D. G. and Bieberich, M.J., "Determination of Autogenous Ignition Temperatures of a Steam Turbine Lubricating Oil in Nitrogen and Oxygen Mixtures," Flammability and Sensitivity of Materials in Oxygen-Enriched Atmospheres : First Volume, ASTM STP 812, Werley, B. L. Editor, American Society for Testing and Materials, Philadelphia, PA, 1983 pp. 43-55.

9. McIlroy, K. and Zawierucha, R., "The Use of the Accelerating Rate Calorimeter in Oxygen Compatibility Testing," Flammability and Sensitivity of Materials in Oxygen-Enriched Atmospheres : Second Volume, ASTM STP 910, Benning, M. A. Editor, American Society for Testing and Materials, Philadelphia, PA, 1986 pp. 98-107.

10. Bryan, C. J. and Lowrie, R., "Comparative Results of Autogenous Ignition Temperature Measurements by ASTM G 72 and Pressurized Scanning Calorimetry in Gaseous Oxygen" Flammability and Sensitivity of Materials in Oxygen-Enriched Atmospheres : Second volume, ASTM STP 910, Benning, M. A., Editor, American Society for Testing and Materials, Philadelphia, PA, 1986 pp. 108-117.

11. McIlroy, K., Drnevich, R. F. and Zawierucha, R., "Accelerating Rate Calorimeter Studies of Metal Oxide Interactions with Hydrocarbons in High-Pressure Oxygen," Flammability and Sensitivity of Materials in Oxygen-Enriched Atmospheres : Third Volume, ASTM STP 986, Schroll, D. W. Editor, American Society for Testing and Materials, Philadelphia, PA, 1988 pp. 134-145.

12. Swindells, I., Nolan, P. F. and Wharton, R. K., "Spontaneous Ignition Temperatures of Nonmetals in Gaseous Oxygen," Flammability and Sensitivity of Materials in Oxygen-Enriched Atmospheres : Third Volume, ASTM STP 986, Schroll, D. W. Editor, American Society for Testing and Materials, Philadelphia, PA, 1988 pp. 206-217.

13. Wegner, W., Binder, C., Hengstenberg, P., Herrman, K. P. and Weinert, D., "Tests to Evaluate the Suitability of Materials for Oxygen Service," Flammability and Sensitivity of Materials in Oxygen-Enriched Atmospheres : Third Volume, ASTM STP 986, Schroll, D. W. Editor, American Society for Testing and Materials, Philadelphia, PA, 1988 pp. 268-278.

14. Lockhart, B. J., Hampton, M. D. and Bryan, C. J., "The Oxygen Sensitivity/Compatibility Ranking of Several Materials by Different Test Methods," Flammability and Sensitivity of Materials in Oxygen-Enriched Atmospheres : Fourth Volume, ASTM STP 1040, Stoltzfus, J. M., Stradling, J. S. and Benz, F. J. Editors, American Society for Testing Materials, Philadelphia, PA, 1989 pp. 93-105.

15. Wharton, R. K., Nolan, P. F. and Swindells, I., "Further Studies of Factors That Affect the Sponaneous Ignition Temperature of Nonmetallic Materials in Gaseous Oxygen," Flammability and Sensitivity of Materials in Oxygen-Enriched Atmospheres : Fourth Volume, ASTM STP 1040 Stoltzfus, J. M., Stradling, J. S. and Benz, F. J. Editors, American Society for Testing Materials, Philadelphia, PA, 1989 pp.106-124.

16. Currie, J. L., Irani, R. S. and Sanders, J., "The Ignition Behavior of Silicone Greases in Oxygen Atmospheres," Flammability and Sensitivity of Materials in Oxygen-Enriched Atmospheres : Fourth Volume, ASTM STP 1040 Stoltzfus, J. M., Stradling, J. S. and Benz, F. J. Editors, American Society for Testing Materials, Philadelphia, PA, 1989 pp. 125-141

17. Tapphorn, R. M., Shelley, R. and Benz, F. J., "Test Developments for Polymers in Oxygen-Enriched Atmospheres," Flammability and Sensitivity of Materials in Oxygen-Enriched Atmospheres : Fifth Volume, ASTM STP 1111 Stoltzfus, J. M. and McIlroy, K. Editors, American Society for Testing Materials, Philadelphia, PA, 1991 pp. 43-59.

18. Lowrie, R., Garcia, H. and Hennigson, R. L., "Automation of Autogenous Ignition Equipment," Flammability and Sensitivity of Materials in Oxygen-Enriched Atmospheres : Fifth Volume, ASTM STP 1111 Stoltzfus, J. M. and McIlroy, K.. Editors, American Society for Testing Materials, Philadelphia, PA, 1991 pp. 75-86.

19. de Monocault, J. M., Garceau, P. and Vagnard, G., "Oxygen Compatibility of Materials and Equipment for the Vulcain European Rocket Engine," Flammability and Sensitivity of Materials in Oxygen-Enriched Atmospheres : Fifth Volume, ASTM STP 1111 Stoltzfus, J. M. and McIlroy, K.. Editors, American Society for Testing Materials, Philadelphia, PA, 1991 pp. 475-488.

20. Vagnard, G., Delode, G. and Barthélémy, H., "Test Methods and Interpretation of Results for Selecting Nonmetallic Materials for Oxygen Service," Flammability and Sensitivity of Materials in Oxygen-Enriched Atmospheres : Fifth Volume, ASTM STP 1111 Stoltzfus, J. M. and McIlroy, K. Editors, American Society for Testing Materials, Philadelphia, PA, 1991 pp. 489-505.

21. Barthélémy, H., Delode, G. and Vagnard, G. "Ignition of Materials in Oxygen Atmospheres : Comparison of Different Test Methods for Ranking Materials," Flammability and Sensitivity of Materials in Oxygen-Enriched Atmospheres : Fifth Volume, ASTM STP 1111, Stoltzfus, J.M., and McIlroy, K. Editors, American Society for Testing Materials, Philadelphia, PA, 1991 pp. 506-515.

Annex ZZ (informative)

Corresponding International and European Standards for which equivalents are not given in the text

At the time of publication of this part of ISO 11114, the edition of the following document was valid. All standards are subject to revision, and the parties to agreements based on this part of ISO 11114 are encouraged to investigate the possibility of applying the most recent edition of the document indicated below. Members of ISO and IEC maintain registers of currently valid International Standards.

EN 849 : 1996 ISO 10297 : ....[1], Gas cylinder valves - Specifications and type testing

The other European publications have no equivalent international publication.

[1] In preparation