ICS 27.120.30 SLOVENSKÁ TECHNICKÁ NORMA December 2019

STN	**Jadrová energia** **Stanovenie obsahu dusíka v spekaných peletách UO2, (U, Gd)O2 a (U, Pu)O2** **Metóda extrakcie inertného plynu a detekcie vodivosti (ISO 12799: 2015)**	**STN** **EN ISO 12799** 40 1007

Nuclear energy - Determination of nitrogen content in UO2, (U,Gd)O2 and (U,Pu)O2 sintered pellets - Inert gas extraction and conductivity detection method (ISO 12799:2015)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/19

Obsahuje: EN ISO 12799:2019, ISO 12799:2015

129882

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 12799

June 2019

ICS 27.120.30

English Version

Nuclear energy - Determination of nitrogen content in UO2, (U,Gd)O2 and (U,Pu)O2 sintered pellets - Inert gas extraction and conductivity detection method (ISO 12799:2015)

Énergie nucléaire - Dosage de la teneur en azote des pastilles frittées d'UO2, (U,Gd)O2 et (U,Pu)O2 - Méthode d'extraction par gaz inerte et méthode de mesurage de la conductivité (ISO 12799:2015)

Kernenergie - Bestimmung des Stickstoffgehalts in UO2-, (U,Gd)O2- und (U,Pu)O2-gesinterten Pellets - Schutzgasextraktion und Leitfähigkeitsbestimmungsverfahren (ISO 12799:2015)

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Ref. No. EN ISO 12799:2019 E

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European foreword

The text of ISO 12799:2015 has been prepared by Technical Committee ISO/TC 85 "Nuclear energy, nuclear technologies, and radiological protection" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 12799:2019 by Technical Committee CEN/TC 430 "Nuclear energy, nuclear technologies, and radiological protection" the secretariat of which is held by AFNOR.

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INTERNATIONAL STANDARD

ISO 12799

First edition
2015-03-15

Nuclear energy — Determination of nitrogen content in UO_2, $(U,Gd)O_2$ and $(U,Pu)O_2$ sintered pellets — Inert gas extraction and conductivity detection method

Énergie nucléaire — Dosage de la teneur en azote des pastilles frittées d'UO_2, $(U,Gd)O_2$ et $(U,Pu)O_2$ — Méthode d'extraction par gaz inerte et méthode de mesurage de la conductivité

Reference number
ISO 12799:2015(E)

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Published in Switzerland

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Foreword

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The committee responsible for this document is ISO/TC 85, *Nuclear Energy*, Subcommittee SC 5, *Fuel Technology*.

INTERNATIONAL STANDARD ISO 12799:2015(E)

Nuclear energy — Determination of nitrogen content in UO_2, $(U,Gd)O_2$ and $(U,Pu)O_2$ sintered pellets — Inert gas extraction and conductivity detection method

1 Scope

This International Standard describes a procedure for measuring the nitrogen content of UO_2, $(U,Gd)O_2$, and $(U,Pu)O_2$ pellets. Nitrogen in nuclear fuel may be present either as elemental nitrogen or chemically combined in the form of nitrogenous compounds. The technique described herein serves to determine the total content of nitrogen excluding those compounds whose decomposition temperature is above 2 200 °C (most notably Pu and U nitrides).