

 INDUSTRIJA NAFTNE, d.d. Rafinerije i marketing (R&M)/ Refining and marketing PROIZVODNJA R & M/ R & M PRODUCTION/ KONTROLA KVALITETE / QUALITY CONTROL	POPIS AKREDITIRANIH METODA ISPITIVANJA KONTROLA KVALITETE LIST OF ACCREDITED TEST METHODS QUALITY CONTROL Fleksibilno područje akreditacije/ Flexible scope of accreditation	Vezani dokument: LP-06
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Urinj 53, HR-51221 Kostrena

R.br. No.	Naziv normirane metode/ Test method	Izdanje/ Publication issue
1.	HRN EN ISO 5164 Motorna goriva – Određivanje karakteristika lupanja motornih goriva – Istraživačka metoda/ <i>Petroleum products - Determination of knock characteristics of motor fuels - Research method</i>	2014.
2.	ASTM D 2699 Standard test Method for Research Octane Number of Spark–Ignition Engine Fuel	2024.b
3.	HRN EN ISO 5163 Motorna i avionska goriva – Određivanje karakteristika lupanja motornih i avionskih goriva – Motorna metoda/ <i>Petroleum products - Determination of knock characteristics of motor and aviation fuels - Motor method</i>	2014.
4.	ASTM D 2700 Standard test Method for Motor Octane Number of Spark – Ignition Engine Fuel	2024.c
5.	HRN EN 237 Tekući naftni proizvodi – Određivanje niskog sadržaja olova atomskom apsorpcijskom spektrometrijom/ <i>Liquid petroleum products - Petrol - Determination of low lead concentrations by atomic absorption spectrometry</i>	2005.
6.	HRN EN 13016-1 Tekući naftni proizvodi – Tlak para – 1. dio: Određivanje tlaka para zasićenih zrakom (ASVP) i izračunavanje tlaka para u suhom zraku (DVPE)/ <i>Liquid petroleum products - Vapour pressure - Part 1: Determination of air saturated vapour pressure (ASVP) and calculated dry vapour pressure equivalent (DVPE)</i>	2024.
7.	ASTM D 5191 Standard Test Method for Vapour Pressure of Petroleum products (Mini Method)	2022.
8.	HRN EN ISO 22854-A Tekući naftni proizvodi – Određivanje vrste ugljikovodika i oksigenata u benzinu i etanolu (E85) kao gorivu gorivu za motorna vozila – Metoda višedimenzionalne plinske kromatografije/ <i>Liquid petroleum products - Determination of hydrocarbon types and oxygenates in automotive-motor gasoline and in ethanol (E85) automotive fuel - Multidimensional gas chromatography method</i>	2025.
9.	nHRN EN 14078 Tekući naftni proizvodi – Određivanje količine metilnih estera masnih kiselina (FAME) u srednjim destilatima – Metoda infracrvene spektrometrije/ <i>Liquid petroleum products - Determination of fatty acid methyl ester (FAME) content in middle distillates - Infrared spectrometry method</i>	2014.
10.	HRN EN ISO 5165 Naftni proizvodi - Određivanje sposobnosti paljenja dizelskih goriva – Cetanski broj prema motornoj metodi/ <i>Petroleum products - Determination of the ignition quality of diesel fuels - Cetane engine method</i>	2020.
11.	ASTM D 613 Standard Test Method for Cetane Number of Diesel Fuel Oil	2025.
12.	HRN EN ISO 12937 Naftni proizvodi - Određivanje vode - Karl Fischerova kulometrijska metoda/ <i>Petroleum products - Determination of water - Coulometric Karl Fischer titration method</i>	2001.
13.	HRN EN 116 Dizelsko gorivo i loživo ulje ekstra lako - Određivanje točke filtrabilnosti (CFPP)/ <i>Diesel and domestic heating fuels - Determination of cold filter plugging point - Stepwise cooling bath method</i>	2015.
14.	ASTM D 6371 Standard Test Method for Cold Filter Plugging Point of Diesel and Heating Fuels	2024.

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15.	HRN EN ISO 20846 Naftni proizvodi – Određivanje sadržaja sumpora u gorivima za motorna vozila – Metoda ultraljubičaste fluorescencije/ <i>Petroleum products - Determination of sulfur content of automotive fuels - Ultraviolet fluorescence method</i>	2019.
16.	ASTM D 5453 Standard Test Method for Determination of Total Sulfur in Light Hydrocarbons, Spark Ignition Engine Fuel, Diesel Engine Fuel, and Engine Oil by Ultraviolet Fluorescence	2025.
17.	HRN EN ISO 12185 Nafta i naftni proizvodi – Određivanje gustoće – Metoda s oscilirajućom U-cijevi/ <i>Crude petroleum and petroleum products - Determination of density - Oscillating U-tube method</i>	2024.
18.	ASTM D 4052 Standard Test Method for Density, Relative Density and API Gravity of Liquids by Digital Density Meter	2022.
19.	ASTM D 1319 Standard Test Method for Hydrocarbon Types in Liquid Petroleum Products by Fluorescent Indicator Adsorption	2020.a
20.	ASTM D 86 Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure - automatski postupak/ <i>automatic procedure</i>	2023.ae2
21.	HRN EN ISO 3405 Naftni proizvodi – Određivanje značajki destilacije pri atmosferskom tlaku/ <i>Petroleum and related products from natural or synthetic sources - Determination of distillation characteristics at atmospheric pressure - automatska metoda</i>	2019.
22.	HRN EN 12916 Naftni proizvodi – Određivanje tipova aromatskih ugljikovodika u srednjim destilatima – Metoda tekućinske kromatografije visokog učinka s detektorom indeksa loma/ <i>Petroleum products - Determination of aromatic hydrocarbon types in middle distillates - High performance liquid chrom. method with ref. index detection</i>	2024.
23.	HRN EN ISO 8754 Naftni proizvodi – Određivanje količine sumpora – Energetsko disperzivna fluorescencijska spektrometrija rendgenskih zraka/ <i>Petroleum products - Determination of sulfur content - Energy-dispersive X-ray fluorescence spectrometry</i>	2025.
24.	ASTM D 4294 Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectroscopy	2024.
25.	ASTM D 240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter	2019.
26.	ASTM D 5291 – D Standard Test Methods for Instrumental Determination of Carbon, Hydrogen, and Nitrogen in Petroleum Products and Lubricants	2021.
27.	UOP 539 - Refinery Gas Analysis by GC	2012.
28.	ASTM D 1945 - Standard Test Method for Analysis of Natural Gas by Gas Chromatography	2025.
29.	HRN EN ISO 6976 - Proračun toplinskih vrijednosti, gustoće, relativne gustoće i Wobbeovog broja iz sastava prirodnog plina/ <i>Natural gas - Calculation of calorific values, density, relative density and Wobbe indices from composition</i>	2016.
30.	Vlastita metoda/In-house method – Određivanje sastava dimnog plina plinskom kromatografijom/ <i>Determination of flue gas composition by gas chromatography</i>	2023. (izdanje 05)

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A. Kovačića 1, HR-44000 Sisak

R.br. No.	Naziv normirane metode/ Test method	Izdanje/ Publication issue
1.	HRN EN ISO 12185 Nafta i naftni proizvodi - Određivanje gustoće - Metoda s oscilirajućom U-cijevi <i>Crude petroleum and petroleum products -- Determination of density -- Oscillating U-tube method (ISO 12185:1996; EN ISO 12185:1996)</i>	2024
2.	ASTM D4052 Standard Test Method for Density and Relative Density of Liquids by Digital Density Meter	22
3.	HRN EN ISO 3405 Nafta i srodni proizvodi iz prirodnih ili sintetičkih izvora – Određivanje značajki destilacije pri atmosferskom tlaku - automatski postupak <i>Petroleum and related products from natural or synthetic sources – Determination of distillation characteristics at atmospheric pressure – automatic procedure</i>	2019
4.	ASTM D86 Standard Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure – automatski postupak/ automatic procedure	23ae2
5.	HRN EN 116 Dizelsko gorivo i loživo ulje ekstra lako – Određivanje točke filtrabilnosti – Metoda postupnog hlađenja <i>Diesel and domestic heating fuels – Determination of cold filter plugging point – Stepwise cooling bath method</i>	2015
6.	ASTM D6371 Standard Test Method for Cold Filter Plugging Point of Diesel and Heating Fuels	24
7.	HRN EN ISO 2719 Određivanje točke paljenja – Metoda u zatvorenoj posudi po Pensky-Martensu – automatski postupak <i>Determination of flash point – Pensky-Martens closed cup method- automatic procedure</i>	2016 A1: 2021
8.	ASTM D93 Standard Test Method for Flash – Point by Pensky – Martens Closed Cup Tester- automatic procedure	25
9.	HRN EN 13016-1 Tekući naftni proizvodi – Tlak para- 1. dio: Određivanje tlaka para zasićenog zraka (ASVP) i izračunavanje tlaka para u suhom zraku (DVPE) <i>Liquid petroleum products – Vapour pressure – Part 1: Determination of air saturated vapour pressure (ASVP) and calculated dry vapour pressure equivalent (DVPE)</i>	2024
10.	ASTM D5191 Standard Test Method for Vapor Pressure of Petroleum Products (Mini Method)	22
11.	HRN EN ISO 3170 Tekući ugljikovodici – Ručno uzorkovanje <i>Hydrocarbon Liquids – Manual sampling</i>	2025

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12.	HRN EN 12916 Naftni proizvodi – Određivanje tipova aromatskih ugljikovodika u srednjim destilatima – Metoda tekućinske kromatografije visokog učinka s detektorom indeksa loma <i>Petroleum products – Determination of aromatic hydrocarbon types in middle distillates – High performance liquid chromatography method with refractive index detection</i>	2024
13.	HRN EN ISO 12937 Naftni proizvodi – Određivanje vode – Karl Fischerova kulometrijska metoda <i>Petroleum products – Determination of water – Coulometric Karl Fischer titration method</i>	2001
14.	HRN EN 14078 Tekući naftni proizvodi – Određivanje metilnih estera masnih kiselina (FAME) u srednjim destilatima – Metoda infracrvene spektrometrije - Koncentracijski raspon A i B <i>Liquid petroleum products – Determination of fatty acid methyl ester (FAME) content in middle distillates – Infrared spectrometry method Concentration range A and B</i>	2014
15.	HRN EN ISO 20846 Naftni proizvodi – Određivanje sadržaja sumpora u gorivima za motorna vozila – Metoda ultraljubičaste fluorescencije <i>Petroleum products – Determination of sulfur content of automotive fuels – Ultraviolet fluorescence method</i>	2019
16.	HRN EN ISO 8754 Naftni proizvodi – Određivanje količine sumpora – Energetsko disperzivna fluorescencijska spektrometrija rendgenskih zraka <i>Petroleum products – Determination of sulfur content – Energy-dispersive X-ray fluorescence spectrometry</i>	2025
17.	HRN EN ISO 5163 Motorna i avionska goriva – Određivanje karakteristika lupanja motornih i avionskih goriva – Motorna metoda <i>Petroleum products – Determination of knock characteristics of motor and aviation fuels – Motor method</i>	2014
18.	HRN EN ISO 5164 Motorna goriva – Određivanje karakteristika lupanja motornih goriva - Istraživačka metoda <i>Petroleum products – Determination of knock characteristics of motor fuels – Research method</i>	2014
19.	HRN EN ISO 5165 Naftni proizvodi – Određivanje sposobnosti paljenja dizelskih goriva – Cetanski broj prema motornoj metodi <i>Petroleum products – Determination of the ignition quality of diesel fuels – Cetane engine method</i>	2020

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20.	HRN EN ISO 22854-A Tekući naftni proizvodi -- Određivanje vrste ugljikovodika i oksigenata u benzinu i etanolu (E85) kao gorivu za motorna vozila -- Metoda višedimenzionalne plinske kromatografije <i>Liquid petroleum products -- Determination of hydrocarbon types and oxygenates in automotive-motor gasoline and in ethanol (E85) automotive fuel -- Multidimensional gas chromatography method</i>	2025
21.	HRN EN ISO 20884 Naftni proizvodi -- Određivanje sadržaja sumpora u gorivima za motorna vozila -- Valno disperzivna rendgenska fluorescentna spektrometrija <i>Petroleum products -- Determination of sulfur content of automotive fuels -- Wavelength-dispersive X-ray fluorescence spectrometry</i>	2019 A: 2021
22.	ASTM D2622 Standard Test Method for Sulfur in Petroleum Products by Wavelength Dispersive X-ray Fluorescence Spectrometry	24a
23.	HRN EN 13723 Naftni proizvodi -- Određivanje male količine olova u motornim benzinima -- Valno disperzivna rendgenska fluorescentna spektrometrija (XRF) <i>Petroleum products -- Determination of low lead contents in gasolines -- Wavelength-dispersive X-ray fluorescence spectrometry (XRF)</i>	2003

	Ime i prezime/ Potpis Name and surname/ Signature	Funkcija Function	Datum Date
Izradio/ Created by	 Mateja Djetelić Ibrahimpašić	Voditelj sustava kvalitete/ Quality manager	20. 10. 2025.
Odobrio/ Approved by	 Iva Jednačak	Rukovoditelj Kontrole kvalitete/ Manager of Quality Control	20. 10. 2025.