

**TANZANIA STANDARDS PUBLISHED IN GOVERNMENT GAZETTE NO 469 ON
19 JUNE 2020.**

S/N	TZS NUMBER	TITLE	CATEGORY
BUILDING AND CONSTRUCTION			
1.	TZS 2506:2020	Kitchen Sinks - Connecting dimensions	Voluntary
2.	TZS 952:2020	Concrete pipes and fittings, unreinforced, Steel fibre and reinforced	Voluntary
3.	TZS 1062:2020	Concrete manholes and inspection chambers, unreinforced, steel fibre and reinforced	Voluntary
4.	TZS 589:2020	Methods of test for pozzolanic materials	Voluntary
5.	TZS 590:2020	Glossary of terms relating to pozzolana	Voluntary
INFORMATION TECHNOLOGY			
6.	TZS 2400-3: 2020/ISO/ IEC 15457 – 3: 2008	Identification cards-Thin flexible cards-Part 3: Part 3: Test method	Voluntary
7.	TZS 2401:2020/ ISO/IEC 27032: 2012	Information technology-Security Techniques- Guidelines for cyber security	Voluntary
8.	TZS 2402:2020/ ISO/IEC 7810: 2003	Identification cards - Physical characteristics	Voluntary
9.	TZS 2400-1: 2020/ISO/IEC 154571:2008	Identification cards - Thin flexible cards - Part 1: Physical characteristics	Voluntary

10.	TZS 2403-1: 2020/ISO/IEC 183281:2015	Identification cards-ICC-managed devices-Part 1: General framework	Voluntary
11.	TZS 2404- 1:2020/ISO/IE C 7816-1:2011	Identification cards-Integrated circuit cards-Part 1: Cards with contacts-Physical characteristics	Voluntary
12.	TZS 2405- 2:2020/ISO/IE C 178392:2015	Information technology-Biometric System-on- card-Part 2: Physical characteristics	Voluntary
13.	TZS 2403- 2:2020/ISO/IEC 183282:2015	Identification-cards-ICC managed devices-Part 2: Physical characteristics and test methods for cards with devices	Voluntary
ELECTRICAL			
14.	TZS 2406-1: 2020/IEC61724 1: 2017	Photovoltaic system performance Part 1: Monitoring	Voluntary
15.	TZS 2410: 2020/IEC 62509: 2010	Battery charge controllers for photovoltaic systems-Performance and functions	Voluntary
16.	TZS 2406- 3:2020/IEC 617243:2016	Photovoltaic system performance Part 3: Energy evaluation method	Voluntary
17.	TZS 970: 2020/IEC 61829: 2015	Photovoltaic (PV) array-On-site measurement of current voltage characteristics	Voluntary
18.	TZS 1952-95: 2020 / IEC TS	Recommendation for renewable energy and hybrid systems for rural electrification-Part 9-5:	Voluntary

	62257-9-5:2018	Integrated Systems-Laboratory evaluation of stand-alone renewable energy products for rural electrification Safety of power converter for use in PV systems Part 1: General requirements	
19.	TZS 2408: 2020/IEC 62093:2005	Balance of system components for photovoltaic systems-Design qualification natural environments	Voluntary
20.	TZS 2465- 1:2020/ IEC 63032-1:2018	Low-frequency cables and wires with PVC insulation and PVC sheath - Part 1: General test and measuring methods	Voluntary
MINING AND MINERALS			
21.	TZS 2369:2020	Field logging for subsurface explorations of soil and rock – code of practice.	Voluntary
22.	TZS 2370:2020	Transportation and preservation of soil samples – code of practice	Voluntary
23.	TZS 2371: 2020/ ISO 18875:2015	Coalbed methane exploration and development — Terms and definitions.	Voluntary
24.	TZS 2452: 2020/ ISO 18871:2015	Method of determining coalbed methane content.	Voluntary
25.	TZS 2457- 1:2020/ ISO 88581:1990	Hard coal -- Froth flotation testing - Part 1: Laboratory procedure.	Voluntary
26.	TZS 2457-2: 2020/ ISO 88582: 2004	Hard coal -- Froth flotation testing - Part 2: Sequential evaluation.	Voluntary

27.	TZS 2457- 3:2020/ISO 88583:2004	Hard coal -- Froth flotation testing - Part 3: Release evaluation.	Voluntary
28.	TZS 2458- 1:2020/ISO 100861:2000	Coal -- Methods for evaluating flocculants for use in coal preparation -- Part 1: Basic parameters.	Voluntary
29.	TZS 2459: 2020/ ISO 8833:1989	Magnetite for use in coal preparation - Test methods.	Voluntary
30.	TZS 2461: 2020/ ISO 8654:2018	Jewellery — Colors of gold alloys — Definition, range of colors and designation.	Voluntary
31.	TZS 2462: 2020/ ISO 10713:1992	Jewellery - Gold alloy coatings	Voluntary
32.	TZS 2463: 2020/ ISO 11426:2014	Jewelry — Determination of gold in gold jewelry alloys — Cupellation method (fire assay).	Voluntary
33.	TZS 2453: 2020/ ISO 11790:2017	Copper, lead, zinc and nickel concentrates - Guideline for the inspection of mechanical sampling systems	Voluntary
34.	TZS 2454: 2020/ ISO 12743: 2018	Copper, lead, zinc and nickel concentrates - Sampling procedures for determination of metal and moisture content.	Voluntary
35.	TZS 2455: 2020/ ISO 11794:2017	Copper, lead, zinc and nickel concentrates - Sampling of slurries.	Voluntary

36.	TZS 2456: 2020/ ISO 10378:2016	Copper, lead and zinc sulfide concentrates - Determination of gold and silver — Fire assay gravimetric and flame atomic absorption spectrometric method	Voluntary
FOOD AND AGRICUTURAL			
37.	TZS 2545-1: 2020/ ISO 6689-1:2014	Equipment for harvesting - Combines and functional components - Part 1- Vocabulary	Voluntary
38.	TZS 2545- 2:2020/ISO 66892:2014	Equipment for harvesting - Combines and functional components – Part2- Assessment of characteristics and performance defined in vocabulary	Voluntary
39.	TZS 2546- 1:2020/ISO 89091:2014	Forage harvesters - Part 1- Vocabulary	Voluntary
40.	TZS 2546-3: 2020/ ISO 8909-3:2014	Forage harvesters -Part 3: Test method	Voluntary
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43.	TZS 2411: 2020/ ISO 21569: 2005	Foodstuffs- Methods of analysis for the detection of genetically modified organisms and derived products- Qualitative nucleic acidbased methods.	Voluntary

44.	TZS 2412: 2020/ ISO 21570: 2005	Foodstuffs - Methods of analysis for the detection of genetically modified organisms and derived products - Quantitative nucleic acidbased methods	Voluntary
45.	TZS 2413: 2020/ ISO 21571: 2005	Foodstuffs- Methods of analysis for the detection of genetically modified organisms and derived products- Nucleic acid extraction.	Voluntary
46.	TZS 2414: 2020/ ISO 24276: 2006	Foodstuffs- Methods of analysis for the detection of genetically modified organisms and derived products- General requirements and definitions	Voluntary
47.	TZS 484: 2020/ ISO 6658: 2017	Sensory analysis -methodology- General guidance	Voluntary
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49.	TZS 2429: 2020/ ISO 5496: 2006	Sensory analysis -Methodology Initiation and training of assessors in the detection of recognition of odours	Voluntary
50.	TZS 2430: 2020/ ISO 11037: 2011	Sensory analysis-Guidelines for sensory assessment of the colour of products	Voluntary
51.	TZS 2431: 2020/ ISO 5492: 2008	Sensory analysis vocabulary	Voluntary
52.	TZS 594: 2020/ ISO 4120:2004	Sensory analysis-Methodology Triangle test	Voluntary
53.	TZS 593: 2020/ ISO 4121:2003	Sensory analysis-Methodology method of investigating sensitivity of taste	Voluntary

54.	TZS 485: 2020/ ISO 4121:2003	Guidelines for the use of quantitative response scale	Voluntary
55.	TZS 486: 2020/ ISO 5497:1982	Sensory analysis methodology Guidelines for the preparation of samples for which direct sensory analysis is not feasible	Voluntary
56.	TZS 2432: 2020/ ISO 16779: 2015	Sensory analysis-assessment (determination and verification) of the shelf life of foodstuffs	Voluntary
57.	TZS 2433: 2020/ ISO 13302: 2003	Sensory analysis -methods of assessing modification to the flavor of foodstuffs due to packaging	Voluntary
58.	TZS 2434: 2020/ ISO 11136: 2014	Sensory analysis-methodology General guidance for conducting hedonic test with consumers in a controlled area	Voluntary
59.	TZS 2435: 2020/ ISO 11132: 2012	Sensory analysis-methodology Guidelines for monitoring the performance of a quantitative sensory panel	Voluntary
60.	TZS 2436: 2020/ ISO 8586:2012	Sensory analysis -general guidance for the selection, training and monitoring of selected assessors and expert sensory assessors	Voluntary
61.	TZS 2437: 2020/ ISO 11035: 1994	Sensory analysis-Identification and selection of descriptors for establishing a sensory profile by a multidimensional approach	Voluntary
62.	TZS 2438: 2020/ ISO 13299: 2016	Sensory analysis- Methodology General guidance for establishing a sensory profile	Voluntary
63.	TZS 2439: 2020/ ISO 11036: 1994	Sensory analysis-Methodology Texture profile	Voluntary

64.	TZS 121:2020	Method for microbiological examination of <i>Clostridium botulinum</i> and Clostridium botulinum toxin in food stuffs	Voluntary
65.	TZS 403:20019/ ISO 21567: 2004	Microbiology of food and animal feeding Stuffs- Horizontal method for the detection of <i>Shigella</i> <i>spp</i>	Voluntary
66.	TZS 730-3: 2020/ ISO 16649-3: 2015	Microbiology of the food chain - Horizontal method for the enumeration of beta- glucuronidase positive <i>Escherichia coli</i> - Part 3: Detection and most probable number technique using 5-bromo-4chloro-3-indolyl-β-D-glucuronide	Voluntary
67.	TZS 1183: 2020/ ISO 6887-4: 2017	Microbiology of the food chain -- Preparation of test samples, initial suspension and decimal dilutions for microbiological examination - Part 4: Specific rules for the preparation of miscellaneous products	Voluntary
68.	TZS 730-1: 2020/ ISO 16649-1:2018	Microbiology of the food chain- Horizontal method for the enumeration of beta-glucuronidase- positive <i>Escherichia coli</i> - Part 1: Colony-count technique at 44 degrees C using membranes and 5bromo-4-chloro-3-indolyl beta-D-glucuronide	Voluntary
69.	TZS 951: 2020/ ISO 18593: 2018	Microbiology of the food chain- Horizontal methods for surface sampling	Voluntary
70.	TZS 1182: 2020/ ISO 6887-3: 2017	Microbiology of the food chain - Preparation of test samples, initial suspension and decimal dilutions for microbiological examination- Part 3: Specific rules for the preparation of fish and fishery	Voluntary

		product	
71.	TZS 2420: 2020/ ISO 6887-6: 2013	Microbiology of food and animal feed- Preparation of test samples, initial suspension and decimal dilutions for microbiological examination - Part 6: Specific rules for the preparation of samples taken at the primary production stage	Voluntary
72.	TZS 2421:2020/ ISO 10273: 2017	Microbiology of the food chain- Horizontal method for the detection of pathogenic <i>Yersinia enterocolitica</i>	Voluntary
73.	TZS 2422: 2020/ ISO 22964	Microbiology of the food chain- Horizontal method for the detection of <i>Cronobacter spp</i>	Voluntary
74.	TZS 2423: 2020/ ISO 18743: 2015	Microbiology of the food chain- Detection of <i>Trichinella</i> larvae in meat by artificial digestion method	Voluntary
75.	TZS 2424-1: 2020/ ISO 15216-1: 2016	Microbiology of the food chain- Horizontal method for determination of hepatitis A virus and norovirus using real-time RT- PCR-Part 1: Method for quantification	Voluntary
76.	TZS 2425: 2020/ ISO 16654: 2001	Microbiology of food and animal feeding stuff- Horizontal method for the detection of <i>Escherichia coli</i> O157	Voluntary
77.	TZS 2426-1: 2020/ ISO 21527-1: 2008	Microbiology of food and animal feeding stuff - Horizontal method for the enumeration of yeasts and moulds - Part 1: Colony count technique in products with water activity greater than 0,95	Voluntary

78.	TZS 2426-2: 2020/ ISO 21527-2: 2008	Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of yeasts and moulds - Part 2: Colony count technique in products with water activity less than or equal to 0,95	Voluntary
79.	TZS 2427: 2020/ ISO 21871: 2006	Microbiology of food and animal feeding stuff - Horizontal method for the determination of low numbers of presumptive <i>Bacillus cereus</i> – Most probable number technique and detection method	Voluntary
80.	TZS 2428:2020/ ISO 17604: 2015	Microbiology of the food Chain Carcass sampling for microbiological analysis	Voluntary
81.	TZS 2446: 2020	Determination of the difference between actual and theoretical content of triacylglycerols with ECN 42 in olive oil	Voluntary
82.	TZS 2447: 2020/ ISO 6800: 1997	Animal and vegetable fats and oils - Determination of the composition of fatty acids in the 2-position of the triglyceride molecules	Voluntary
83.	TZS 1314-1: 2020	Oilseeds – Part 1: Determination of content of impurities	Voluntary
84.	TZS 1314 - 2: 2020	Oilseeds – Part 2: Determination of moisture and volatile matter content	Voluntary
85.	TZS 1314 - 3: 2020	Oilseeds – Part 3: Determination of oil content (Reference method)	Voluntary
86.	TZS 1314 - 4: 2020	Oilseeds – Part 4: Determination of acidity of oils	Voluntary

87.	TZS 2469: 2020/ ISO 5510: 1984	Animal feeding stuffs - Determination of available lysine	Voluntary
88.	TZS 2470: 2020/ ISO 17180: 2013	Animal feeding stuffs - Determination of lysine, methionine and threonine in commercial amino acid products and premixtures	Voluntary
89.	TZS 2471: 2020/ ISO 6866: 1985	Animal feeding stuffs - Determination of free and total gossypol	Voluntary
90.	TZS 2472: 2020/ ISO 13906: 2008	Animal feeding stuffs – Determination of acid detergent fibre (ADF) and acid detergent lignin (ADL) Contents	Voluntary
91.	TZS 2473: 2020/ ISO 5984: 2002	Animal feeding stuffs - Determination of crude ash	Voluntary
92.	TZS 2474: 2020/ ISO 7485: 2000	Animal feeding stuffs - Determination of potassium and Sodium contents - Methods using flame - emission spectrometry	Voluntary
93.	TZS 2475 -1: 2020/ ISO 64901: 1985	Animal feeding stuffs - Determination of calcium content - Part 1: Titrimetric method	Voluntary
94.	TZS 2476: 2020/ ISO 6492: 1999	Animal feeding stuffs Determination of fat content	Voluntary
95.	TZS 2477: 2020/ ISO 6495-1: 2015	Animal feeding stuffs - Determination of water-soluble chlorides content – Part 1: Titrimetric method	Voluntary

96.	TZS 2478: 2020/ ISO 6496: 1999	Animal feeding stuffs - Determination of moisture and other volatile matter content	Voluntary
97.	TZS 2479: 2020/ ISO 6651:2001	Animal feeding stuffs - Semiquantitative determination of aflatoxin B1 - Thin layer chromatographic methods	Voluntary
98.	TZS 2480: 2020/ ISO 5983-1: 2005	Animal feeding stuffs - Determination of nitrogen content and calculation of crude protein content - Part 1: Kjeldahl method.	Voluntary
99.	TZS 2481: 2020/ ISO 5983-2: 2009	Animal feeding stuffs - Determination of nitrogen content and calculation of crude protein content - Part 2: Block digestion and steam distillation method.	Voluntary
100	TZS 2482: 2020/ ISO 9831: 1998	Animal feeding stuffs, animal products, and faeces or urine - Determination of gross calorific value - Bomb calorimeter method	Voluntary
101	TZS 2483: 2020/ ISO 12099: 2017	Animal feeding stuffs, cereals and milled cereal products – Guideline for the application of near infrared spectrometry.	Voluntary
102	TZS 2484: 2020/ ISO 13904: 2016	Animal feeding stuffs - Determination of tryptophan content	Voluntary
103	TZS 2485: 2020/ ISO 17375: 2006	Animal feeding stuffs - Determination of aflatoxin B1	Voluntary
104	TZS 2486: 2020/ ISO 27085:2009	Animal feeding stuffs - Determination of calcium, sodium, phosphorus, magnesium, potassium, iron, zinc, copper, manganese, cobalt,	Voluntary

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105	TZS 2487: 2020/ ISO 6869: 2000	Animal feeding stuffs - Determination of the contents of calcium, copper, iron, magnesium, manganese, potassium, sodium and zinc - Method using atomic absorption spectrometry	Voluntary
106	TZS 2488: 2020/ ISO 6497: 2002	Animal feeding stuffs – Sampling	Voluntary
107	TZS 2489: 2020/ ISO 6867: 2000	Animal feeding stuffs – Determination of vitamin E content – Method using high-performance liquid chromatography	Voluntary
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109	TZS 2550-3: 2020/ ISO 6361- 3:2014	Wrought aluminium and aluminium alloys — Sheets, strips and plates — Part 3: Strips: Tolerances on shape and dimensions.	Voluntary
110	TZS 2550-4: 2020/ ISO 63614:2014	Wrought aluminium and aluminium alloys — Sheets, strips and plates — Part 4: Sheets and plates: Tolerances on shape and dimensions.	Voluntary
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112	TZS 2504:2020/ISO 24521:2016	Activities relating to drinking water and wastewater services — Guidelines for the management of basic on-site domestic wastewater services	Voluntary
113	TZS 2212- 11:2020/ISO 17892-11:2019	Geotechnical investigation and testing — Laboratory testing of soil —Part 11: Permeability tests	Voluntary
114	TZS 2500- 1:2020/ISO 146881:2017	Geotechnical investigation and testing — Identification and classification of soil — Part 1: Identification and description	Voluntary
115	TZS 2501: 2020/ISO 14689:2017	Geotechnical investigation and testing — Identification, description and classification of rock	Voluntary
116	TZS 2502-12: 2020/ISO 22476-12: 2009	Geotechnical investigation and testing —Field testing —Part 12: Mechanical cone penetration test (CPTM)	Voluntary
117	TZS 974: 2020/ ISO 11047: 1998	Soil quality - Determination of Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel and Zinc - Flame and electro thermal atomic absorption spectrometric methods	Voluntary
118	TZS 975: 2020/ ISO 16772: 2004	Soil quality - Determination of Mercury in aqua regia soil extracts with cold-vapor atomic spectrometry or cold-vapor atomic fluorescence spectrometry	Voluntary

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120	TZS 977: 2020/ ISO 10382: 2002	Soil quality - Determination of Organochlorine pesticides and Polychlorinated biphenyls – Gas- chromatographic method with electron captures detection.	Voluntary
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122	TZS 2515: 2020/ ISO 15192: 2010	Soil quality -- Determination of chromium (VI) in solid material by alkaline digestion and ion chromatography with spectrophotometric detection.	Voluntary
123	TZS 2516: 2020/ ISO 14256-2: 2005	Soil quality -- Determination of nitrate, nitrite and ammonium in field-moist soils by extraction with potassium chloride solution -- Part 2: Automated method with segmented flow analysis.	Voluntary
124	TZS 2517: 2020/ ISO/TR 18105: 2014	Soil quality -- Detection of water soluble chromium (VI) using a ready-to-use test-kit method	Voluntary
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126	TZS 973: 2020/ ISO 15009: 2016	Soil quality - Gas chromatographic determination of the content of volatile Aromatic hydrocarbons, Naphthalene and volatile Halogenated hydrocarbons - Purgeand-trap method with thermal desorption.	Voluntary

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132	TZS 985: 2020/ ISO 3929: 2003	Road vehicles – Measurement methods for exhaust gas emissions during inspection or maintenance	Voluntary
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135	TZS 2534: 2020/ ISO 12749-4: 2015	Nuclear energy, nuclear technologies, and radiological protection -- Vocabulary -- Part 4: Dosimetry for radiation processing.	Voluntary
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138	TZS 2537: 2020/ ISO 21940-11: 2016	Mechanical vibration — Rotor balancing — Part 11: Procedures and tolerances for rotors with rigid behaviour.	Voluntary
139	TZS 2538-3: 2020/ ISO 108163: 2009	Mechanical Vibration - Evaluation of machine vibration by measurements on non-rotating parts - Part 3: Industrial machines with nominal power above 15kW and nominal speeds between 120r/min and 15000 r/min when measured in situ	Voluntary
140	TZS 2538-6: 2020/ ISO 108166:1995	Mechanical Vibration-Evaluation of machine vibration by measurements on non-rotating parts - Part 6: Reciprocating machines with power ratings above 100 kw	Voluntary
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143	TZS 1422:2020	Textiles – Woven, non-woven, Knitted and Lace Household Curtain and Drapery fabrics – Specifications	Voluntary
144	TZS 1423:2020	Textiles – Upholstery fabric Specification	Voluntary

145	TZS 1550:2020	Textiles – Woven Handkerchief Performance – Specifications.	Voluntary
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147	TZS 201: 2020/ ISO 3380: 2015	Leather – Physical and Mechanical tests – Determination of shrinkage temperature up to 100°C.	Voluntary
148	TZS 202: 2020/ ISO 3378: 2002	Leather – Physical and mechanical tests – Determination of resistance to grain cracking and grain crack index.	Voluntary
149	TZS 203:2020/ ISO 2417: 2016	Leather – Physical and mechanical tests – Determination of the static absorption of water.	Voluntary
150	TZS 204: 2020	Leather – Determination of Mildew Resistance (including wet – blue chrome).	Voluntary
151	TZS 298: 2020/ ISO 5398-1: 2018	Leather– Chemical determination of chromic oxide content – Part 1: Quantification by titration.	Voluntary
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155	TZS 2521: 2020/ ISO 2211:1973	Liquid chemical products - Measurement of colour in Hazen units (Platinum-cobalt scale)	Voluntary
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158	TZS 2524: 2020/ ISO 1388-6: 1981	Ethanol for industrial use – Methods of test – Part 6: Test for miscibility with water	Voluntary
159	TZS 2525: 2020/ ISO 1388-7: 1981	Ethanol for industrial use – Methods of test – Part 7: Determination of methanol content (methanol contents between 0.01 and 0.20 % (v/v)) - Photometric method	Voluntary
160	TZS 2526: 2020/ ISO 1388-8: 1981	Ethanol for industrial use – Methods of test – Part 8: Determination of methanol content (methanol contents between 0.10 and 1.5 % (v/v)) -Visual colorimetric method	Voluntary
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165	TZS 2270: 2018/ ISO 6327: 1981	Gas analysis – Determination of the water dew point of natural gas – Cooled surface condensation hygrometers	Voluntary
166	TZS 2271 - 3: 2018/ ISO 69743: 2018	Natural gas — Determination of composition with defined uncertainty by gas chromatography – Part 3: Determination of hydrogen, helium, oxygen, nitrogen, carbon dioxide and hydrocarbons up to C8 using two packed columns	Voluntary
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168	TZS 2273 - 2: 2018/ ISO 10102: 1993	Natural gas — Determination of water by the Karl Fischer method - Part 2: Titration procedure	Voluntary
169	TZS 2273 - 3: 2018/ ISO 101013: 1993	Natural gas — Determination of water by the Karl Fischer method - Part 3: Coulometric procedure	Voluntary
170	TZS 2274: 2018/ ISO 10715: 1997	Natural Gas – Sampling Guidelines	Voluntary
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172	TZS 2276: 2018/ ISO 19739: 2004	Natural gas - Determination of sulfur compounds using gas chromatography	Voluntary
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