

**TANZANIA STANDARDS DECLARED AS VOLUNTARY STANDARDS
PUBLISHED IN GOVERNMENT NOTEC NO 171 2022.**

S/N	TZS NUMBER	TITLE	CATEGORY
BUILDING AND CONSTRUCTION			
1.	TZS 3029:2021/ISO 16204:2012	Durability - Service life design of concrete structures	Voluntary
2.	TZS 3030-1:2021/ISO 22965-1:2007	Concrete - Part 1: Methods of specifying and guidance for the specifier	Voluntary
3.	TZS 3032:2021/ISO 22966:2009	Execution of concrete structures	Voluntary
4.	TZS 3033-2:2021/ISO 14824-2:2012	Grout for prestressing tendons - Part 2: Grouting procedures	Voluntary
5.	TZS 3033-3:2021/ISO 14824-3:2012	Grout for prestressing tendons - Part 3: Test methods.	Voluntary
6.	TZS 3036:2021/ISO/TR 16475:2020	Fibre-reinforced polymer (FRP) reinforcement of concrete - Test methods - Part 1: FRP bars and grids	Voluntary
7.	TZS 3028-2:2021/ISO 10406-2:2015	Fibre-reinforced polymer (FRP) reinforcement of concrete -Test methods - Part 2: FRP sheets	Voluntary
8.	TZS 3100:2021/ISO 8272:1985	Doorsets - Air permeability test	Voluntary
9.	TZS 3102:2021/ISO 8273:1985	Doors and doorsets - Standard atmospheres for testing the performance of doors and doorsets placed between different climates	Voluntary
10.	TZS 3105:2021/ISO 9379:2005	Operating forces — Test method — Doors	Voluntary
11.	TZS 3106:2021/ISO 8248:1985	Windows and door height windows - Mechanical tests	Voluntary
12.	TZS 3107:2021/ISO 15821:2007	Doorsets and windows — Water-tightness test under dynamic pressure — Cyclonic aspects	Voluntary
13.	TZS 3108:2021/ISO 9380:1990	Doorsets - Repeated torsion test	Voluntary
14.	TZS 3110:2021/ISO 15822:2007	Test method of doorset opening performance in diagonal deformation — Seismic aspects	Voluntary
15.	TZS 2948-1:2021/ISO 12466-1:2007	Plywood — Bonding quality — Part 1: Test methods	Voluntary

16.	TZS 3093:2021/ISO 9424:2003	Wood-based panels — Determination of dimensions of test pieces	Voluntary
17.	TZS 3094:2021/ISO 9426:2003	Wood-based panels — Determination of dimensions of panels	Voluntary
18.	TZS 3095:2021/ISO 9427:2003	Wood-based panels — Determination of density	Voluntary
19.	TZS 3096:2021/ISO 16572:2008	Timber structures — Wood-based panels — Test methods for structural properties	Voluntary
20.	TZS 3097:2021/ISO 16978:2003	Wood-based panels — Determination of modulus of elasticity in bending and of bending strength	Voluntary
21.	TZS 3099:2021/ISO 16979:2003	Wood-based panels — Determination of moisture content	Voluntary
22.	TZS 3101:2021/ISO 18775:2020	Veneers — Terms and definitions, determination of physical characteristics and tolerances	Voluntary
23.	TZS 3104-1:2021/ISO 12460-1:2007	Wood-based panels — Determination of formaldehyde release — Part 1: Formaldehyde emission by the 1-cubic-metre chamber method	Voluntary
24.	TZS 3104-3:2021/ISO 12460-3:202	Wood-based panels — Determination of formaldehyde release —Part 3: Gas analysis method	Voluntary
25.	TZS 3104-4:2021/ISO 12460-4:2016	Wood-based panels — Determination of formaldehyde release — Part 4: Desiccator method	Voluntary
26.	TZS 3104-5:2021/ISO 12460-5:2015	Wood-based panels — Determination of formaldehyde release — Part 5: Extraction method (called the perforator method)	Voluntary
27.	TZS 3112:2021/ISO 16999:2003	Wood-based panels — Sampling and cutting of test pieces	Voluntary
28.	TZS 3103:2021/ISO 16999:2003	Viscosity graded bitumen binder	Voluntary
29.	TZS 3150:2021/ISO 20292:2009	Materials for the production of primary aluminium — Dense refractory bricks — Determination of cryolite resistance	Voluntary
30.	TZS 3205-2/ISO 20290- 2:2019	Aggregates for concrete - Test methods for mechanical and physical properties - Part 2: Method for determination of resistance to fragmentation by Los Angeles Test (LA-Test)	Voluntary

31.	TZS3205-3/ISO 20290-3:2019	Aggregates for concrete - Test methods for mechanical and physical properties-Part 3: Determination of aggregate crushing value (ACV)	Voluntary
CHEMICAL STANDARDS			
1.	TZS 3051-1:2021/ISO 2286-1:2016	Rubber- or plastics-coated fabrics - Determination of roll characteristics - Part 1: Methods for determination of length, width and net mass	Voluntary
2.	TZS 3051-2:2021/ISO 2286-2:2016	Rubber- or plastics-coated fabrics — Determination of roll characteristics — Part 2: Methods for determination of total mass per unit area, mass per unit area of coating and mass per unit area of substrate	Voluntary
3.	TZS 3051-3:2021/ISO 2286-3:2016	Rubber- or plastics-coated fabrics — Determination of roll characteristics — Part 3: Method for determination of thickness	Voluntary
ELECTRICAL STANDARDS			
1.	TZS 3186:2021/IEC 62108:2016	Concentrator photovoltaic (CPV) modules and assemblies - Design qualification and type approval	Voluntary
ENVIRONMENTAL STANDARDS			
1.	TZS 861:2021/ISO 5667-10:2020	Water quality - Sampling - Part 10: Guidance on sampling of waste waters	Voluntary
2.	TZS 1259:2021/ISO 9377-2:2000	Water quality — Determination of hydrocarbon oil index — Part 2: Method using solvent extraction and gas chromatography	Voluntary
3.	TZS 3045:2021/ISO 15270:2008	Plastics —Guidelines for the recovery and recycling of plastics waste	Voluntary
4.	TZS 3044:2021/ISO 17422:2018	Plastics — Environmental aspects — General guidelines for their inclusion in standards	Voluntary
5.	TZS 3043:2021/ISO 21070/2017	Ships and marine technology —Marine environment protection — Management and handling of shipboard garbage	Voluntary

6.	TZS 3044:2021/ISO 17422:2018	Plastics — Environmental aspects — General guidelines for their inclusion in standards	Voluntary
7.	TZS 3043:2021/ISO 21070:2017	Ships and marine technology — Marine environment protection — Management and handling of shipboard garbage	Voluntary
8.	TZS 3042:2021/ISO 16304:2018	Ships and marine technology — Marine environment protection — Arrangement and management of port waste reception facilities	Voluntary
9.	TZS 3041:2021/ISO 22444-1:2020	Rare earth — Vocabulary — Part 1: Minerals, oxides and other compounds	Voluntary
10.	TZS 3040:2021/ISO 22444-2:2020	Rare earth — Vocabulary — Part 2: Metals and their alloys	Voluntary
11.	TZS 3039:2021/ISO 22450:2020	Recycling of rare earth elements — Requirements for providing information on industrial waste and end-of-life products	Voluntary
12.	TZS 3057:2021/ISO 9359:1989	Air Quality- Stratified sampling method for assessment of ambient air quality	Voluntary
13.	TZS 3058:2021/ISO 19087:2018	Workplace air- Analysis of respirable crystalline silica by Fourier- Transform Infrared Spectroscopy	Voluntary
14.	TZS 3059:2021/ISO 11222:2002	Air Quality- Determination of the uncertainty of the time average of air quality measurements.	Voluntary
15.	TZS 939:2021	Sampling airborne radioactive materials from the stacks and ducts of nuclear facilities	Voluntary
16.	TZS 3153:021	Air Quality - Atmospheric conditions for testing	Voluntary
17.	TZS 3145:2021/ISO 8995-1:2002	Lighting of work places - Part 1: Indoor	Voluntary

18.	TZS 3144:2021/ISO 8995-3:2018	Lighting of work places - Part 3 - Lighting requirements for safety and security of outdoor work places	Voluntary
FOOD AND AGRICUTURAL			
1.	TZS 3015:2021/ISO 20588:2019	Animal Feeding Stuffs — Vocabulary	Voluntary
2.	TZS 2420-5:2021/ISO 6887-5:2020	Microbiology of the food chain - Preparation of test samples, initial suspension and decimal dilutions for microbiological examination- Part 5: Specific rules for the preparation of milk and milk products	Voluntary
3.	TZS 3003: 2021/ISO 17410:2019	Microbiology of the food chain- Horizontal method for the enumeration of psychrotrophic microorganisms	Voluntary
4.	TZS 3004:2021/ISO 19020:2017	Microbiology of the food chain - Detection and enumeration of Cryptosporidium and Giardia in fresh leafy green vegetables and berry fruits	Voluntary
5.	TZS 2424:2021/ISO 15216-2:2019	Microbiology of the food chain - Horizontal method for determination of hepatitis A virus and norovirus using real-time RT-PCR - Part 2: Method for detection	Voluntary
6.	TZS 1746:2021/ISO 4387:2019	Cigarettes — Determination of Total and Nicotine-Free Dry Particulate Matter using a Routine Analytical Smoking Machine	Voluntary
7.	TZS 1748:2021/ISO 16632:2013	Tobacco and tobacco products — Determination of water content — Gas-chromatographic Method	Voluntary

8.	TZS 1753:2021/ISO 8454:2007	Cigarettes — Determination of Carbon Monoxide in the Vapour Phase of Cigarette Smoke — NDIR Method	Voluntary
9.	TZS 1754:2021/ISO 8243:2013	Cigarettes — Sampling	Voluntary
10.	TZS 3053:2021/ISO 21147:2003.	Fine-cut Tobacco and Smoking Articles Made from It — Survey and Analysis of consumer-made articles.	Voluntary
11.	TZS 3054:2021/ISO 4389:2000	Tobacco and tobacco products — Determination of Organochlorine pesticide residues — gas chromatographic method	Voluntary
12.	TZS 3055:2021/ISO 4874:2020.	Tobacco — Sampling of Batches of raw material — general principles	Voluntary
13.	TZS 3056:2021/ISO 20193:2019	Tobacco and tobacco products — determination of the width of the strands of cut tobacco	Voluntary
14.	TZS 3232:2021/ISO 9648:1988	Sorghum - Determination of tannin content	Voluntary
15.	TZS 3241:2021/ISO 6646:2011	Rice - Determination of the potential milling yield from paddy and from husked rice	Voluntary
16.	TZS 3240:2021/ISO 6639- 1:1986	Cereals and pulses - Determination of hidden insect infestation: General principles	Voluntary
17.	TZS 3239:2021/ISO 6639- 2:1986	Cereals and pulses - Determination of hidden insect infestation - Sampling	Voluntary

18.	TZS 3228:2021/ISO 6639-3:1986	Cereals and pulses - Determination of hidden insect infestation - Reference method	Voluntary
19.	TZS 3227:2021/ISO 6639-4:1987	Cereals and pulses - Determination of hidden insect infestation - Rapid methods	Voluntary
20.	TZS 351:2021/ISO 1839:1980	Tea - sampling	Voluntary
21.	TZS 349:2021/ISO 3103:2019	Tea - Preparation of liquor for use in sensory analysis	Voluntary
22.	TZS 1160:2021/ISO 7516:1984	Instant tea in solid form - Sampling	Voluntary
23.	TZS 319:2021/ISO 7514:1990	Instant tea in solid form - Determination of total ash	Voluntary
24.	TZS 364:2021/ISO 7513:1990	Instant tea in solid form - Determination of moisture content (loss in mass at 103 degrees C)	Voluntary
25.	TZS 1630-2:2021/ISO 14502-2:2005	Determination of substances characteristic of green and black tea-Part 2: Content of catechins in green tea-Method using high performance liquid chromatography	Voluntary
26.	TZS 1161:2021/ISO 9768:1994	Tea - Determination of water extract	Voluntary

27.	TZS 1166:2021/ISO 15598:1999	Tea - Determination of crude fibre content	Voluntary
28.	TZS 1630-1:2021/ISO 14502-1:2005	Determination of substances characteristic of green and black tea-Part 1: Content of total polyphenols in tea-Colorimetric method using Folin-Ciocalteu reagent	Voluntary
29.	TZS 1165:2015/ISO 1578:1975	Tea - Determination of alkalinity of water-soluble ash	Voluntary
30.	TZS 1164:2015/ ISO 1577:1987	Tea - Determination of acid-insoluble ash	Voluntary
31.	TZS 1163:2015/ ISO 1576:1988	Tea - Determination of water-soluble ash and water-insoluble ash	Voluntary
32.	TZS 1167:2021/ISO 1573:1980	Tea - Determination of loss in mass at 103 degrees C	Voluntary
33.	TZS 366:2021/ISO 1572:1980	Tea - Preparation of ground sample of known dry matter content	Voluntary
34.	TZS 1162:2021/ISO 1575:1987	Tea - Determination of total ash	Voluntary
35.	TZS 350:2021/ISO 6078:1982	Black tea - Vocabulary	Voluntary
36.	TZS 315:2021/ISO 10727:2002	Tea and Instant tea in solid form - Determination of caffeine content - Method using high - performance liquid chromatography	Voluntary

37.	TZS 1492:2021/ISO 1842:1991	Fruit and vegetable products - Determination of pH.	Voluntary
38.	TZS 1494:2021/ISO 5518:1978	Fruits and vegetables - Determination of benzoic acid content –spectrophotometric method	Voluntary
39.	TZS 1497:2021/ISO 5523:1981	Fruits and vegetables – Determination of Sulphur dioxide content (routine method)	Voluntary
40.	TZS 1498:2021/ISO 6557-2:1984	Fruits and vegetables – Determination of ascorbic acid content – routine methods	Voluntary
41.	TZS 1789:2021	Code of hygienic practices for sprouts production	Voluntary
42.	TZS 554:2021	Code of hygienic practices for ready-to-eat fresh pre-cut fruits and vegetables	Voluntary
43.	TZS 553:2021	Code of hygienic practices for berries	Voluntary
44.	TZS 552:2021	Code of hygienic practices for fresh leafy vegetables	Voluntary
45.	TZS 551:2021	Code of hygienic practices for melons	Voluntary

MECHANICAL STANDARDS			
1.	TZS 12 – 1:2021/ISO 22034-1:2007	Steel wire and wire products — Part 1: General test methods.	Voluntary
2.	TZS 3189:2021/ISO 1460:2020	Metallic coatings — Hot dip galvanized coatings on ferrous materials — Gravimetric determination of the mass per unit area	Voluntary
3.	TZS 3156-1:2021/ISO 8283-1:1991	Plastics pipes and fittings — Dimensions of sockets and spigots for discharge systems inside buildings — Part 1: Unplasticized poly (vinyl chloride) (PVC-U) and chlorinated poly (vinyl chloride) (PVC-C).	Voluntary
4.	TZS 3156-2 :2021/ISO 8283-2:1992	Plastics pipes and fittings - Dimensions of sockets and spigots for discharge systems inside buildings - Part 2: Polyethylene (PE)	Voluntary
5.	TZS 3208-2:2021/ISO 29463-2:2011	High-efficiency filters and filter media for removing particles in air — Part 2: Aerosol production, measuring equipment and particle-counting statistics	Voluntary
6.	TZS 3208-3:2021/ISO 29463-3:2011	High-efficiency filters and filters media for removing particles in air — Part 3: Testing flat sheet filter media.	Voluntary
7.	TZS 3208-4:2021/ISO 29463-4:2011	High-efficiency filters and filter media for removing particles in air — Part 4: Test method for determining leakage of filter elements—Scan method.	Voluntary
8.	TZS 3208-5:2021/ISO 29463-5:2011	High-efficiency filters and filter media for removing particles in air — Part 5: Test method for filter elements.	Voluntary
9.	TZS 3213-1:2021/ISO/TS11155-1:2001	Road vehicles - Air filters for passenger compartments - Part 1: Test for particulate filtration	Voluntary
10.	TZS 3213-2:2021/ISO11155-2:2009	Road vehicles - Air filters for passenger compartments - Part 2: Test for gaseous filtration	Voluntary
11.	TZS 2823-7:2021/ISO 4210-7:2014	Cycles — Safety requirements for bicycles — Part 7: Wheels and rims test methods.	Voluntary

12.	TZS 2823-8:2021/ISO 4210-8:2014	Cycles — Safety requirements for bicycles — Part 8: Pedal and drive system test methods.	Voluntary
13.	TZS 2823-9:2021/ISO 4210-9:2014	Cycles — Safety requirements for bicycles — Part 9: Saddles and seat-posttest methods	Voluntary
14.	TZS 3214:2021/ISO 8224:2003	Traveler irrigation machines - Operational characteristics and laboratory and field test methods	Voluntary
15.	TZS 3215:2021/ISO 18564:2016	Machinery for forestry - Noise test code	Voluntary
16.	TZS 3216:2021/ISO 11850:2011	Machinery for forestry -- General safety requirements	Voluntary
17.	TZS 3217:2021/ISO 8084:2003	Machinery for forestry -- Operator protective structures – Laboratory tests and performance requirements	Voluntary
18.	TZS 3218:2021/ISO 22868:2021	Forestry and gardening machinery — Noise test code for portable hand-held machines with internal combustion engine — Engineering method (Grade 2 accuracy)	Voluntary
MINING AND MINERALS			
1.	TZS 3167:2021/ISO 3551-1:1992	Rotary core diamond drilling equipment- System A - Part 1: Metric units.	Voluntary
2.	TZS 3167:2021/ISO 3551-1:1992	Rotary core diamond drilling equipment- System A - Part 1: Metric units.	Voluntary
3.	TZS 3168:2021	Standard Test Method for Total Ash Content of Activated Carbon	Voluntary
4.	TZS 3166:2021	Standard Test Method for Carbon Tetrachloride Activity of Activated Carbon.	Voluntary
5.	TZS 3165:2021	Standard Test Methods for Moisture in Activated Carbon	Voluntary
6.	TZS 3169:2021/ISO 15238:2016	Solid mineral fuels - Determination of total cadmium content of coal	Voluntary
7.	TZS 3170:2021/ISO 19579:2006	Solid mineral fuels - Determination of sulphur by IR spectrometry	Voluntary

8.	TZS 3171:2021/ISO 20336:2017	Solid mineral fuels - Determination of total sulphur by Coulomb titration method	Voluntary
GENERAL TECHNICS / PACKAGIG STANDARDS			
1.	TZS 3005:2021/ISO 22483:2020	Tourism and related services - Hotels -Service requirements	Voluntary
2.	TZS 3007:2021/ISO 14782:2021	Plastics - Determination of haze for transparent materials.	Voluntary
3.	TZS 3008:2021/ISO 7765- 1:1988	Plastics film and sheeting - Determination of impact by the free-falling dart method - Part 1: Staircase methods	Voluntary
4.	TZS 3009:2021/ISO 527- 3:2018	Plastics - Determination of tensile properties - Part 3: Test conditions for films and sheets	Voluntary
5.	TZS 3010:2021/ISO 7086- 1:2019	Glass hollowware in contact with food - Release of lead and cadmium - Part 1: Test method	Voluntary
6.	TZS 3011:2021/ISO 6486- 1:2019	Ceramic ware, glass ceramic ware and glass dinnerware in contact with food - Release of lead and cadmium – Part 1: Test method	Voluntary
TEXTILE STANDARDS			
1.	TZS 1422:2021/EAS 971:2020	Textiles — Fabrics for household curtains and drapery — Specification	Voluntary
2.	TZS 1662-1:2021/EAS 942-1:2020	Footwear — Specification — Part 1: Men’s closed shoes	Voluntary
3.	TZS 1662-2:2021/EAS 942-2:2020	Footwear — Specification — Part 2: Men’s open shoes	Voluntary
4.	TZS 2999-1:2021/EAS 944-1:2020	Footwear — Specification — Part 1: Children’s shoes (2 years and below)	Voluntary
5.	TZS 2999-2:2021/EAS 944-2:2020	Footwear — Specification — Part 2: Children’s shoes (2-6 years).	Voluntary
6.	TZS 3000-1:2021/EAS 943-1:2020	Footwear — Specification — Part 1: Ladies closed shoes	Voluntary

7.	TZS 3000-2:2021/EAS 943-2:2020	Footwear — Specification — Part 2: Ladies open shoes	Voluntary
8.	TZS 164:2021/EAS 226:2018	Kitenge – Specification.	Voluntary
9.	TZS 165:2021/EAS 224:2018	Cotton Khanga – Specification	Voluntary
10.	TZS 736:2021/EAS 222:2018	Knitted Polyester - Cellulosic blended fabric – Specification.	Voluntary
11.	TZS 757:2021/EAS 227:2018	Textile - Knitted cotton fabric – Specification.	Voluntary
12.	TZS 1718:2021/EAS 93- 1:2020	Preservation of raw hides and skins — Code of practice — Part 1: Stack salting	Voluntary
13.	TZS 1719:2021/EAS 93- 2:2020	Preservation of raw hides and skins — Code of practice — Part 1: Air drying	Voluntary
14.	TZS 1720:2021/EAS 93- 3:2020	Preservation of raw hides and skins — Code of practice — Part 3: Pickling	Voluntary
15.	TZS 3002:2021/EAS 228:2018	Textile – Cotton bed sheets – Specification.	Voluntary
16.	TZS 208–1:2021/ISO 3377- 1:2011	Leather – physical and mechanical tests – Determination of tear load – Part 1: Single edge tear	Voluntary

17.	TZS 208-2:2021/ISO 3377- 2:2016	Leather – physical and mechanical tests – Determination of tear load – Part 2: double edge tear.	Voluntary
18.	TZS 211:2021/ISO 11640:2018	Leather – Test for colour fastness – Colour fastness to cycles of to and fro rubbing.	Voluntary
19.	TZS 321:2021	Textiles — Woven Blankets — Specifications	Voluntary
20.	TZS 3109:2021/ISO 15702:1998	Leather – Test for colour fastness – Colour fastness to machine washing	Voluntary
21.	TZS 3111:2021/ISO 15703:1998	Leather – Test for colour fastness – Colour fastness to mild washing	Voluntary

22.	TZS 3088 -1:2021/ISO 16663-1:2009	Fishing nets — Method of test for the determination of mesh size —Part 1: Opening of mesh	Voluntary
23.	TZS 3088-2:2021/ISO 16663-2:2003	Fishing nets – Method of test for the determination of mesh size – Part 2: Length of mesh.	Voluntary
24.	TZS 3114:2021/ISO 9865:1991	Textiles - Determination of water repellency of fabrics by the Bundesmann rain-shower test.	Voluntary
25.	TZS 3115:2021/ISO 811:2018	Textiles — Determination of resistance to water penetration — Hydrostatic pressure test.	Voluntary
26.	TZS 3116:2021	Textiles – Standard test method for length, width, thickness, diameter and circumference of textile and leather products.	Voluntary
27.	TZS 3206:2021/ISO 4167:2006	Textiles – Polyolefin agricultural twines – Specification	Voluntary
28.	TZS 3211:2021	Textiles – Polyethylene monofilament twines for fishing – Specification	Voluntary
29.	TZS 166:2021	Textiles - Cotton dress fabric - Specification	Voluntary
30.	TZS 478:2021	Textiles – Poplin varieties – Specification	Voluntary
31.	TZS 756:2021	Textiles – Knitted polyester fabric – Specification	Voluntary
32.	TZS 3197:2021	Textiles – Insect Screening and Louver Cloth Woven from Vinyl-Coated Glass Yarns – Specification	Voluntary
33.	TZS 3198:2021	Textiles – Performance Requirements for Women’s and Girls’ Knitted Blouse and Dress Fabrics	Voluntary
34.	TZS 3199:2021	Textiles – Textiles Cloth, cotton khaki, bleached for general purposes Specification	Voluntary
35.	TZS 3200:2021	Textiles – Performance Requirements for Woven Flat Lining Fabrics for Women’s and Girls’ Apparel	Voluntary

