

# BUREAU OF INDIAN STANDARDS

## Program of Work

### MTD 33 : Nanotechnologies Sectional Committee

Scope: Standardization in the field of Nanomaterials and Nanotechnologies

Liaison: **ISO TC-229 (P): Nanotechnologies**

## Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS/ISO/TR 11360 : 2010 ISO/TR 11360 : 2010 <span style="color: green;">Reviewed In : 2023</span> <span style="color: green;">ISO/TR 11360:2010</span>	Nanotechnologies — Methodology for the Classification and Categorization of Nanomaterials	May, 2023	-	Identical under single numbering
2	IS/ISO/TS 11931 : 2012 ISO/TS 11931 : 2012 <span style="color: green;">Reviewed In : 2023</span> <span style="color: green;">ISO/TS 11931</span>	Nanotechnologies – Nanoscale Calcium Carbonate in Powder Form – Characteristics and Measurement	March, 2023	-	Identical under single numbering
3	IS/ISO/TS 12805 : 2011 ISO/TS 12805 : 2011 <span style="color: green;">Reviewed In : 2023</span> <span style="color: green;">ISO/TS 12805:2011</span>	Nanotechnologies - Materials specifications - Guidance on specifying nano-objects	May, 2023	-	Identical under single numbering
4	IS 16410 : 2017 ISO/TS 10798 : 2011 <span style="color: green;">Reviewed In : 2022</span> <span style="color: green;">ISO/TS 10798:2011</span>	Nanotechnologies - Characterization of Single-Wall Carbon Nano-tubes Using Scanning Electron Microscopy and Energy Dispersive X-Ray Spectrometry Analysis	March, 2022	-	Identical under dual numbering
5	IS 16411 : 2023 ISO / TS 11308 <span style="color: green;">ISO / TS 11308</span>	Nanotechnologies Characterization of carbon nanotube samples using thermogravimetric analysis		-	Identical under dual numbering
6	IS 16412 : 2023 ISO/TS 11888:2017 <span style="color: green;">ISO/TS 11888:2017</span>	Nanotechnologies Characterization of multiwall carbon nanotubes Mesoscopic shape factors		-	Identical under dual numbering
7	IS 16413 : 2023 ISO 10867:2019 <span style="color: green;">ISO 10867:2019</span>	Nanotechnologies - Characterization of single-wall carbon nanotubes using near infrared photoluminescence spectroscopy		-	Identical under dual numbering
8	IS 16999 : 2018  <span style="color: green;">Reviewed In : 2023</span> <span style="color: green;">ISO/TS 14101:2012</span>	Surface characterization of gold nanoparticles for nanomaterial specific toxicity screening: FT - IR method	June, 2023	-	Identical under dual numbering

9	IS 17001 : 2018 ISO/TS 11937 : 2012 Reviewed In : 2023 ISO/TS 11937:2012	Nanotechnologies - Nanoscale titanium dioxide in powder form - Characteristics and measurement	May, 2023	-	Identical under dual numbering
10	IS 17002 : 2018 ISO/TS 12025 : 2012 Reviewed In : 2023 ISO/TS 12025:2012	Nanomaterials - Quantification of nano - Object release from powders by generation of aerosols	June, 2023	-	Identical under dual numbering
11	IS 17003 (Part 1) : 2022 ISO/TS 80004-1:2015 ISO/TS 80004-1:2015	Nanotechnologies Vocabulary Part 1: Core terms		-	Identical under dual numbering
12	IS 17003 (Part 2) : 2018 ISO/TS 80004-2 : 2015 Reviewed In : 2023 ISO/TS 80004-2:2015	Nanotechnologies - Vocabulary: Part 2 Nano - Objects	June, 2023	-	Identical under dual numbering
13	IS 17003 (Part 3) : 2022 ISO 80004-3 :2020 ISO 80004-3 :2020	Nanotechnologies Vocabulary Part 3: Carbon nano-objects		-	Identical under dual numbering
14	IS 17003 (Part 6) : 2024 ISO 80004-6 : 2021 ISO 80004-6 : 2021	Nanotechnologies Vocabulary Part 6: Nano-object characterization		-	Identical under dual numbering
15	IS 17003 (Part 8) : 2022 ISO 80004-8:2020 ISO 80004-8:2020	Nanotechnologies Vocabulary Part 8: Nanomanufacturing processes		-	Identical under dual numbering
16	IS 17003 (Part 13) : 2022 ISO/TS 80004-13 : 2017 ISO/TS 80004-13 : 2017	Nanotechnologies Vocabulary Part 13: Graphene and related two-dimensional 2D materials		-	Identical under dual numbering
17	IS 17567 (Part 1) : 2021 19807-1 ISO 19807-1	ISO TS 19807-1:2019 Nanotechnologies Magnetic nanomaterials Part 1: Specification of characteristics and measurements for magnetic nanosuspensions		-	Identical under dual numbering
18	IS 17836 : 2022 ISO/TR 13014 : 2012 ISO/TR 13014 : 2012	Nanotechnologies Guidance on physico-chemical characterization of engineered nanoscale materials for toxicologic assessment		-	Identical under dual numbering
19	IS 17838 : 2022 ISO/TS 10797:2012 ISO 10797 : 2012	Nanotechnologies Characterization of single-wall carbon nanotubes using transmission electron microscopy		-	Identical under dual numbering
20	IS 17845 : 2022 ISO/TR 10929 : 2012	Nanotechnologies Characterization of multiwall carbon nanotube MWCNT samples		-	Identical under dual numbering

	ISO/TR 10929 : 2012				
21	IS 17849 : 2022 ISO 21363 : 2020 ISO 21363 : 2020	Nanotechnologies Measurements of particle size and shape distributions by transmission electron microscopy		-	Identical under dual numbering
22	IS 17850 : 2022 ISO/TR 19601 : 2017 ISO/TR 19601 : 2017	Nanotechnologies Aerosol generation for air exposure studies of nano-objects and their aggregates and agglomerates NOAA		-	Identical under dual numbering
23	IS 18116 : 2023 ISO/TS 13278 : 2017 ISO/TS 13278 : 2017	Nanotechnologies Determination of elemental impurities in samples of carbon nanotubes using inductively coupled plasma mass spectrometry		-	Identical under dual numbering
24	IS/ISO/TS 80004-4 : 2011 ISO/TS 80004-4 : 2011 Reviewed In : 2023 ISO/TS 80004-4 : 2011	Nanotechnologies - Vocabulary Part 4 Nanostructured Materials	May, 2023	-	Identical under single numbering

### Standards under Development

#### Projects Approved

SI. No.	Doc No.	Title
<i>No Records Found</i>		

#### Preliminary Draft Standards

SI. No.	Doc No.	Title
<i>No Records Found</i>		

#### Drafts Standards in WC Stage

SI. No.	Doc No.	Title
1	MTD 33 (24994)	Microbeam analysis Scanning electron microscopy Guidelines for calibrating image magnification
2	MTD 33 (26077) <b>Revision of: IS 17003:2022</b>	Nanotechnologies Vocabulary Part 1 Core Vocabulary

#### Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
<i>No Records Found</i>		

#### Finalized Draft Indian Standard

SI. No.	Doc No.	Title
<i>No Records Found</i>		

#### Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Total Published Standards:24 Total Standards Under development:2

### Aspect Wise Report

Product : 2  
Code of Practices : 6  
Methods of Test : 5  
Terminology : 8  
Dimensions : 1  
System Standard : 0  
Safety Standard : 0  
Others : 2  
Service Specification : 0  
Process Specification : 0  
Unclassified : 0

### Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS/ISO/TS 13278 : 2011 ISO/TS 13278 : 2011 Reviewed In : 2018 IEC/TS 13278 :2011	Nanotechnologies Determination of Elemental Impurities in Samples of Carbon Nanotubes Using Inductively Coupled Plasma Mass Spectrometry
2	IS 3424 : 1985 Reviewed In : 1994	Stainless Steel Table Utensils
3	IS/ISO/TS 80004-1 : 2010 ISO/TS 80004-1 : 2010 Reviewed In : 2018 ISO/TS 80004-1	Nanotechnologies - Vocabulary Part 1 core terms
4	IS/ISO/TS 80004-3 : 2010 ISO/TS 80004-3 : 2010 Reviewed In : 2018 ISO/TS 80004-3	Nanotechnologies - Vocabulary Part 3 Carbon Nano - Objects
5	IS/ISO/TS 80004-8 : 2013 ISO/TS 80004-8 : 2013 Reviewed In : 2023 ISO/TS 80004-8:2013	Nanotechnologies - Vocabulary Part 8 nanomanufacturing process

### Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS/ISO/TS 11931 : 2012 ISO/TS 11931 : 2012 Reviewed In : 2023 ISO/TS 11931	Nanotechnologies Nanoscale Calcium Carbonate in Powder Form Characteristics and Measurement
2	IS 17001 : 2018 ISO/TS 11937 : 2012 Reviewed In : 2023 ISO/TS 11937:2012	Nanotechnologies - Nanoscale titanium dioxide in powder form - Characteristics and measurement