

**METALLURGICAL ENGINEERING DEPARTMENT**

**धातुकर्म इंजीनियरिंग विभाग**

हमारे संदर्भ: एमटीडी 25/ए--2.13

दिनांक 22.11.2018

**Subject: Reaffirmation of Indian Standards pertaining to Powder Metallurgical Materials and products Sectional Committee, MTD 25**

**विषय : भारतीय मानक की पुनः पुष्टि चूर्ण धातुकर्मी समिग्रिया एवं वस्तुओं से सबधित विषय समिति एमटीडी, एमटीडी 25**

The following Indian Standards have been reaffirmed during the month of March 2018 by Powder Metallurgical Materials and products Sectional Committee, MTD 25 for a further period of five years from their due date:

निम्नलिखित भारतीय मानक चूर्ण धातुकर्मी समिग्रिया एवं वस्तुओं से सबधित विषय समिति एमटीडी, एमटीडी 25, अपने नियत तारीख से पांच वर्ष की अवधि के लिए आगे के दौरान की पुष्टि मार्च 2018 में की गई है:

Sl. No.	Spec No.	Title
1.	IS 4840 : 2006	Metal powders - Determination of flow time by means of a calibrated funnel (hall flowmeter)
2.	IS 4841 : 1982	Method for determination of density of sintered metallic materials
3.	IS 4842 : 1982	Method for transverse testing of hardmetals
4.	IS 4848 : 1981	Method for Determination of Apparent Density of Free Flowing Powders for Powder Metallurgical Purposes
5.	IS 5432 : 1982	Glossary of terms relating to powder metallurgy
6.	IS 5461 : 1984	Method for sieve analysis of metal powders
7.	IS 5644(Part 1) : 1993	Metallic Powders - determination of Oxygen Content by Reduction Methods - Part 1 General guidelines
8.	IS 5644 : Part 4 : 1993	Metallic Powders - determination of Oxygen Content by Reduction Methods - Part 4 Total oxygen by reduction extraction
9.	IS 5652 : Part 1 : 1993	Hardmetals - Rockwell Hardness Test (Scale A) - Part 1 : Test Method
10.	IS 6492 : 1972	Methods for sampling of powders for powder metallurgical purposes
11.	IS 7438 : 1985	Method for test for acid-insoluble content in iron, copper, tin, and bronze powders
12.	IS 7505 : 1985	Cobalt powder for hardmetals
13.	IS 7506 : 1987	Nickel Powder
14.	IS 7970 : 1987	Tantalum Powder for Capacitor
15.	IS 8367 : 1993	Tin Powder
16.	IS 8368 : 2010	Tungsten Carbide Powder For Hardmetals
17.	IS 8369 : 2010	Titanium Carbide Powder For Hardmetals
18.	IS 8370 : 1977	Iron powder for powder metallurgical applications
19.	IS 8392 : 1985	Tungsten powder for hardmetals

20.	IS 8485 : 1977	Copper Powder for Powder Metallurgical Applications
21.	IS 8876 : 1978	Method for the determination of residue on chlorination of tungsten metal powder
22.	IS 10035 : 1993	Bronze powder for metallic filters
23.	IS 10385 : 1982	Method For Determination Of Radial Crushing Strength Of Sintered Metal Powder Bearings
24.	IS 11110 : 1984	Copper lead powder
25.	IS 11111 : 1984	Leaded bronze powders
26.	IS 11518 : 1985	Determination of (the magnetization) coercivity in hardmetals
27.	IS 11520 : 1985	Method for metallographic sample preparation of hardmetals
28.	IS 11627 : 1986	Method for determination of apparent density of metallic powders by Scott volumeter
29.	IS 11959 : 1987	Method for Metallographic Determination of Microstructure in Hardmetals
30.	IS 11960 : 1987	Methods for Metallographic Determination of Apparent Porosity and Uncombined Carbon In Hardmetals
31.	IS 12286 : 1988	Method for determination of abrasive wear resistance of hardmetals
32.	IS 12473(Part 1):1988	Chemical Analysis of Hardmetals by Flame Atomic Absorption Spectrometry - Part 1 : General Requirements
33.	IS 12473 : Part 2 : 1988	Chemical Analysis of Hardmetals by Flame Atomic Absorption Spectrometry – Part 2 :Determination of Calcium, Potassium, Magnesium and Sodium in Contents from 0.001 to 0.02 percent (m/m)
34.	IS 12473 : Part 3 : 1988	Chemical Analysis of Hardmetals by Flame Atomic Absorption Spectrometry – Part 3 : Determination of cobalt, iron, manganese and nickel in contents from 0.01 to 0.5 percent (m/m)
35.	IS 12473 : Part 4 : 1988	Chemical Analysis of Hardmetals by Flame Atomic Absorption Spectrometry – Part 4 : Determination of Molybdenum, Titanium and Vanadium in Contents from 0.01 to 0.5 percent (m/m)
36.	IS 12473 : Part 5 : 1988	Chemical Analysis of Hardmetals by Flame Atomic Absorption Spectrometry – Part 5 : Determination of cobalt, iron, manganese, molybdenum, nickel, titanium and vanadium in contents from 0.5 to 2 percent (m/m)
37.	IS 12473 : Part 6 : 1988	Chemical Analysis of Hardmetals by Flame Atomic Absorption Spectrometry - Part 6 Determination of chromium in contents from 0.01 to 2 percent (m/m)
38.	IS 12483 : 1988	Determination of Titanium in Hardmetals by Spectrophotometric Method
39.	IS 12513 : 1988	Determination of Cobalt in Hardmetals by Potentiometric Method
40.	IS 12539 : 1988	Determination of Total Carbon in Hardmetals by Gravimetric Method
41.	IS 12548 : 1988	Determination of insoluble (free) carbon in hardmetals by gravimetric method
42.	IS 12570 : 1988	Method for Determination of Dimensional Changes Associated with Compacting and Sintering of Metallic Powders (Excluding Powders for Hardmetals)
43.	IS 12571 : 1988	Method for Determination of Green Strength by Transverse Rupture of Rectangular Compacts of Metallic Powder
44.	IS 12783 : 1989	Hardmetals - Vickers Hardness Test
45.	IS 13780 : 1993	Hardmetals - Compression Test
46.	IS 13781 : 1993	Permeable sintered metal materials - Determination of bubble test pore size
47.	IS 13782 : 1993	Permeable sintered metal materials - Determination of fluid permeability
48.	IS 13803 : 1993	Sintered metal materials and hardmetals - Determination of young modulus

निदेशक (बिक्री) / प्रमुख (प्रकाशन)/ प्रमुख (पुस्तकालय) से अनुरोध है कि वे उपरोक्त भारतीय मानकों पर पुनः पुष्टिकरण के वर्ष की स्थापना के लिए उचित कार्यवाही करें।

Director (Sales) / H (Pub)/ H (LSC) may kindly take suitable action for affixing the year of reaffirmation to the above mentioned standard

(एन. सूर्यनारायण) (N. Suryanarayana)  
वैज्ञानिक 'ई' प्रमुख (धातुकर्म इंजी.) Scientist 'E' & Head (MTD)

निदेशक (बिक्री)/D(Sales)

प्रमुख (प्रकाशन)/H(Pub)

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