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*भारतीय मानक मसौदा*

**आइसोप्रोटुरॉन वेटेबल पाउडर (डब्ल्यू. पी.) — विशिष्टि**  
*(आइ एस 11995 का पहला पुनरीक्षण)*

*Draft Indian Standard*

**ISOPROTURON WETTABLE POWDER (WP) — SPECIFICATION**

*(first revision of IS 11995)*

**ICS 65.100.20**

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Pesticides Sectional Committee, FAD 01

**Last date of comments:** 22 December 2024

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**FOREWORD**

*(Formal clauses would be added later)*

Isoproturon wettable powder (WP) is used in the control of weeds in agricultural crops.

This standard was published in 1987. In this revision, the standard has been brought out in the latest style and format of the Indian Standards, and references to Indian Standards wherever applicable have been updated. It also incorporates three amendments issued to the previous version of this standard.

In the preparation of this standard, due consideration has been given to the provisions of the *Insecticides Act*, 1968 and the Rules framed thereunder. However, this standard is subject to the restrictions imposed under the Act and Rules, wherever applicable.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

**1 SCOPE**

This standard prescribes the requirements and the methods of sampling and test for isoproturon wettable powder (WP).

**2 REFERENCES**

The following standards contain provisions which through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

<i>IS No.</i>	<i>Title</i>
IS 460 (Part 1) : 2020	Test sieves — Specification: Part 1 Wire cloth test sieves ( <i>fourth revision</i> )
IS 1070 : 2023	Reagent grade water – Specification ( <i>fourth revision</i> )
IS 6940 : 202X	Pesticides and their formulations – Test methods ( <i>second revision</i> ) [ <i>Under preparation Doc: FAD 01(25870)WC</i> ]
IS 8190 (Part 1) : 1988	Requirements for packing of pesticides: Part 1 Solid pesticides ( <i>second revision</i> )
IS 10627 : 1983	Methods for sampling of pesticidal formulations
IS 12004 : 202X	Isoproturon, technical – Specification ( <i>first revision</i> ) [ <i>Under preparation Doc: FAD 01(XXXXX)WC</i> ]

**3 REQUIREMENTS**

**3.1 Description**

The material shall be in the form of a homogenous powder, off-white in colour and shall wet readily on mixing with water providing a suspension suitable for use as a spray.

**3.2** Isoproturon, technical employed in the formulation of this material shall conform to IS 12004.

**3.3** The material shall also comply with the requirements given in Table 1.

**3.4 Isoproturon Content** — When determined by the method prescribed in Annex A, the observed isoproturon content percent (*m/m*) of any of the sample shall not differ from the declared nominal value by more than the tolerance limit given below:

<i>Nominal Value, Percent</i>	<i>Tolerance Limit, Percent</i>
Up to 9	+ 10 -5
Above 9 and below 50	± 5
50 and above	+ 5 -3

} of the nominal value

**3.4.1** The actual value of isoproturon content in the material shall be calculated to the second decimal place and then rounded off to the first decimal place before applying the tolerances given in 3.4.

**3.4.2** The average content of all the samples taken shall not be less than the declared nominal content.

**Table 1 Requirements for Isoproturon Wettable Powder (WP)**  
(Clause 3.3)

SL No.	Characteristic	Requirement	Method of Test, Ref to
(1)	(2)	(3)	(4)
i)	Isoproturon content, percent by mass	Nominal value as declared on the container ( <i>see</i> 3.4)	Annex A of IS 12004
ii)	Sieving requirement, material passing through 75 micron IS Sieve [ <i>see</i> IS 460 (Part 1)], percent by mass, <i>Min</i>	98.0	IS 6940
iii)	Suspensibility, percent by mass, <i>Min</i> : a) for 50 percent WP b) for 75 percent WP	70.0 85.0	IS 6940
iv)	Wettability, in seconds, <i>Max</i>	120	IS 6940
v)	Acidity (as H <sub>2</sub> SO <sub>4</sub> ), percent by mass, <i>Max</i>  Or Alkalinity (as NaOH), percent by mass, <i>Max</i>	0.10  0.20	IS 6940  IS 6940

#### **4 PACKING**

The material shall be packed according to the requirement given in IS 8190 (Part 1).

#### **5 MARKING**

**5.1** The container shall bear legibly and indelibly the following information.

- a) Name of the material;
- b) Name and address of the manufacturer;
- c) Batch number;
- d) Date of manufacture;
- e) Date of expiry;
- f) Net quantity;
- g) Nominal isoproturon content, percent (*m/m*);
- h) Cautionary notice as worded in the *Insecticides Act*, 1968, and Rules framed thereunder;  
and

- j) Any other information required under the *Legal Metrology (Packaged Commodities) Rules, 2011*.

## **5.2 BIS Certification Marking**

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the products may be marked with the Standard Mark.

## **6 SAMPLING**

When freshly manufactured material in bulk quantity is offered for inspection, representative samples of the material shall be drawn and tested as prescribed in IS 10627 within 90 days of its manufacture. When the material is offered for inspection after 90 days of its manufacture, sampling shall be done as prescribed in IS 10627. However, the criteria for conformity of the material when tested, shall be the limits of tolerances, as applicable over the declared nominal value and given under **3.4** of the standard.

## **7 TESTS**

**7.1** For suspensibility test, start with 0.5 percent of concentration after accelerated storage at  $(54 \pm 1)$  °C for 24 h as described in IS 6940. Transfer 25 ml portion of suspension and sediment in a reaction flask. Wash the cylinder thrice with 100 ml of methanol. Proceed to determine active ingredient as described in Annex A of IS 12004.

### **7.2 Quality of Reagents**

Unless specified otherwise, pure chemicals and distilled water (*see* IS 1070) shall be employed in the tests.

NOTE — 'Pure chemicals' shall mean chemicals that do not contain impurities which affect the result of analysis.