

BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

(Not to be reproduced without the permission of BIS or used as an Indian Standard)

भारतीय मानक मसौदा

फेन्थोएट डस्टिंग पाउडर (डी पी) — विशिष्टि

(आइ एस 10950 का पहला पुनरीक्षण)

Draft Indian Standard

PHENTHOATE DUSTING POWDER (DP) — SPECIFICATION

(First Revision of IS 10950)

ICS No. 65.100.10

Pesticides Sectional Committee, FAD 01

Last Date of Comments: **17 August 2024**

FOREWORD

(Formal clauses would be added later)

Phenthoate dusting powder (DP) is widely used in the control of agricultural pests. It is generally manufactured to contain 2 percent (*m/m*) of phenthoate.

This standard was published in 1984. 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 one amendment issued to the previous version of this standards.

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 these, 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*)' This 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 phenthoate dusting powder (DP).

2 REFERENCES

The following Indian Standards contain provisions which through reference in this text, constitute provision 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 (<i>fourth revision</i>)
IS 1070 : 2023	Reagent grade water — Specification (<i>fourth revision</i>)
IS 6940 : 1982	Methods of test for pesticides and their formulations (<i>first revision</i>)
IS 8069 : 2023	Textiles – High density polyethylene (HDPE) polypropylene (PP) woven sacks for packing pesticides — Specification (<i>third revision</i>)
IS 8190 (Part 1) : 1988	Requirements for packing of pesticides: Part 1 Solid pesticides (<i>second revision</i>)
IS 8293 : 202X	Phenthoate, technical — Specification (<i>first revision</i>) [<i>Under Preparation Doc: FAD 01(25621)WC</i>]
IS 10627 : 1983	Methods for sampling of pesticidal formulations

3 REQUIREMENTS

3.1 Description

The material shall be in the form of homogeneous powder. It shall be free-flowing and devoid of lumps. Phenthoate, technical used in its manufacture shall have been uniformly mixed in suitable fillers such as talc or pyrophyllite. The material when dusted from a hand rotary duster, shall issue freely without clogging or bridging. Phenthoate, technical employed in the manufacture of dusting powder formulations shall conform to IS 8293.

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

Table 1 Requirements of Phenthoate Dusting Powders (DP)

(*Clause 3.2*)

Sl. No.	Characteristic	Requirements	Method of Test, Ref to
(1)	(2)	(3)	(4)
i)	Phenthoate content, percent by mass, <i>Max</i>	Nominal value as declared on the container (<i>see 3.3</i>)	Annex A of IS 8293

ii)	Sieving requirement, material passing through 75 micron IS Sieve [<i>see</i> IS 460 (Part 1)], percent by mass, <i>Max</i>	90	IS 6940
iii)	Bulk density after compacting	Not to exceed the value after compacting by more than 60 percent.	IS 6940
iv)	Acidity (as H ₂ SO ₄), percent by mass, <i>Max</i>	0.25	IS 6940
	or Alkalinity (as NaOH), percent by mass, <i>Max</i>	0.05	IS 6940

3.3 Phenthoate Content

When determined by the method prescribed in Annex A of IS 8293, the observed phenthoate content, percent (*m/m*), of any of the samples shall not differ from the nominal value by more than the percent tolerance applied to the declared nominal value as given below:

<i>Nominal Value, percent</i>	<i>Tolerance limit, percent</i>	
Up to 9	+10 - 5	} of the nominal value
Above 9 and below 50	±5	
50 and above	+5 - 3	

The actual value of phenthoate content shall be calculated to two decimal places and then rounded off to one decimal place before applying the tolerance.

4 PACKING

The material shall be packed in clean and dry containers made of mild steel or tinplate or fibre-board or double hessian jute bags or DW tarpaulin laminated jute bags or HDPE woven sacks [*see* IS 8069]. The containers shall also comply with general requirements given in IS 8190 (Part 1).

5 MARKING

5.1 The containers shall be securely closed and 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 phenthoate 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 **3.3**.

7 TESTS

Tests shall be carried out by appropriate methods as referred in col (4) of Table 1.

8 QUALITY OF REAGENTS

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

NOTE – ‘Pure chemicals’ shall mean chemicals that do not contain impurities which affect the results of analysis.