**6.11** **WETTABLE POWDERS**

*Note for preparation of draft specifications. Do not omit clauses or insert additional clauses, nor insert limits that are more lax than those than given in the guidelines, without referring to Section 4. From the “Notes” provided at the end of this guideline, incorporate only those which are applicable to the particular specification.*

**...... [ISO common name] WETTABLE POWDER**

[CIPAC number]/WP (month & year of publication)

**6.11.1** **Description**

The material shall consist of a homogeneous mixture of technical ...... [ISO common name], complying with the requirements of FAO/WHO specification [......], in the form of ...... (see Section 4.2), together with filler(s) and any other necessary formulants. It shall be in the form of a fine powder free from visible extraneous matter and hard lumps.

**6.11.2** **Active ingredient**

6.11.2.1 **Identity tests** (Note 1)

The active ingredient shall comply with an identity test and, where the identity remains in doubt, shall comply with at least one additional test.

6.11.2.2 **...... [ISO common name] content** (Note 1)

The ...... [ISO common name] content shall be declared (g/kg) and, when determined, the average content measured shall not differ from that declared by more than the appropriate tolerance, given in the table of tolerances, Section 4.3.2.

**6.11.3** **Relevant impurities**

6.11.3.1 **By-products of manufacture or storage** (Note 2), if required

Maximum: ......% of the …… [ISO common name] content found under 6.11.2.2

6.11.3.2 **Water** (MT 30.6), if required

Maximum: ...... g/kg.

**6.11.4** **Physical properties**

6.11.4.1 **Acidity** and/or a**lkalinity** (MT 191) or **pH range** (MT 75.3) (Note 3), if required

Maximum acidity: ...... g/kg calculated as H2SO4.

Maximum alkalinity: ...... g/kg calculated as NaOH.

pH range: ...... to ......

6.11.4.2 **Wet sieve test** (MT 185.1)

Maximum: ......% retained on a 75 µm test sieve.

6.11.4.3 **Suspensibility** (MT 184.1) (Note 4)

Minimum ......% after 30 min in CIPAC standard water D at 25 ± 5°C (Note 5 ).

6.11.4.4 **Persistent foam** (MT 47.3) (Note 6)

Maximum: ...... ml after 1 min.

6.11.4.5 **Wettability** (MT 53.3)

The formulation shall be completely wetted in ...... min without swirling.

**6.11.5** **Storage stability**

6.11.5.1 **Stability at elevated temperature** (MT 46.4)

After storage at 54 ± 2 °C for 14 days (Note 7), the determined average active ingredient content must not be lower than ......% relative to the determined average content found before storage (Note 8) and the formulation shall continue to comply with the clauses for:

- by-products of manufacture or storage (6.11.3.1),

- acidity/alkalinity/pH range (6.11.4.1),

- wet sieve test (6.11.4.2),

- suspensibility (6.11.4.3),

- wettability (6.11.4.5),

as required.

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Note 1 Method(s) of analysis must be CIPAC, AOAC or equivalent. If the methods have not yet been published, then full details with appropriate method validation data must be submitted to FAO/WHO by the proposer.

Note 2 This clause should include only relevant impurities and the title should be changed to reflect the name of the relevant impurity. Method(s) of analysis must be peer validated/ILV.

Note 3 The method to be used shall be stated. If several methods are available, a referee method shall be selected.

Note 4 The formulation should be tested at the highest and lowest rates of use recommended by the supplier, provided this does not exceed the conditions given in method MT 184.1.

Note 5 Chemical assay is the only fully reliable method to measure the mass of active ingredient still in suspension. However, the simpler gravimetric method may be used on a routine basis provided that it has been shown to give equal results to those of chemical assay. In case of dispute, chemical assay shall be the referee method.

Note 6 The mass of sample to be used in the test should be at the highest rate of use recommended by the supplier. The test is to be conducted in CIPAC standard water D at 25 ± 5°C.

Note 7 Unless other temperatures and/or times are specified. Refer to Section 4.6.2 of this manual for alternative storage conditions.

Note 8 Samples of the formulation taken before and after the accelerated storage stability test may be analysed concurrently after the test in order to reduce the analytical error.