

**DRAFT AMENDMENT
FOR PUBLIC COMMENT**

DATE OF ISSUE: 7 JANUARY 2022

CLOSING DATE
FOR COMMENTS: 8 MARCH 2022

Draft Amendment No. 1 to

Singapore Standard SS 231:2013 – Specification for laundry detergent powder for household use in manual washing

[Submit Comments](#)

THIS DOCUMENT IS SUBJECT TO CHANGE. THE AMENDMENTS SHOULD NOT BE USED AS PART OF THE SINGAPORE STANDARD. TO EXPEDITE DISTRIBUTION, IT IS CIRCULATED AS RECEIVED FROM THE STANDARDS COMMITTEE. EDITING WILL BE UNDERTAKEN AT THE PUBLICATION STAGE. RECIPIENTS OF THIS DRAFT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTS.

NO REPRODUCTION PERMITTED

Specification for laundry detergent powder for household use in manual washing

AMENDMENT NO. 1

Month / Year

1. Page 6, Foreword

Replace the second paragraph of Foreword with the following statement:

Although laundry detergent powder can be of the anionic, cationic or non-ionic type, the specification only covers the anionic and non-ionic type which is used widely.

2. Page 7, Clause 3.2

Replace Table 1 in clause 3.2 with the below Table:

Table 1 – Requirements of laundry detergent powder for household use in manual washing

	Characteristic	Requirement	Recommended method of tests are found in Annex
1.	Total surface active agents, % (m/m), minimum	10.0	A
2.	Biodegradability of anionic surface active agents, % (m/m), minimum (See NOTE 1)	90.0 60.0	B C
3.	Total phosphate (as P ₂ O ₅), % (m/m), maximum, or, Phosphorus (P), % (m/m), maximum	1.1 0.5	D Not applicable (See NOTE 2)
4.	pH at 25 °C (for 1 % aqueous solution, m/v), maximum	11	E
5.	Insoluble matter, % (m/m) maximum	1.0	F

NOTE 1 – The user can fulfil either the primary test method requirements of 90 % OR the ultimate test method requirements of 60 %.

NOTE 2 – Commonly used methods include the utilisation of Inductively coupled plasma mass spectrometry (ICP-MS), Inductively Coupled Plasma Optical Emission Spectrometry (ICPOES), or whichever appropriate to conduct the test.

3. Page 9, Annex A

Replace "Normative" with "Informative"

4. Page 18, Annex D

Replace "Normative" with "Informative"

5. Page 21, Annex E

Replace "Normative" with "Informative"

6. Page 22, Annex F

Replace "Normative" with "Informative"