

AS 4932.4—2002
Representation of results of particle size analysis
Part 4: Characterization of a classification process

Amendment No. 1
Revised text amendment

Publishing and Approval Dates

Council of Standards Australia Approval: 11 August 2023

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Summary

This Amendment applies to the following elements:

- Front cover
- Preface
- Amendment 1

Amendment details

AS 4932.4—2002 is amended as follows. The amendments should be inserted in the locations as instructed.

Element	Instruction/New text
Front cover	After “ISO 9276-4:2001”, <i>add</i> the following: ISO 9276-4:2001/Amd 1:2017 (Incorporating Amendment No. 1)
Preface	1 <i>Delete</i> the first paragraph and <i>replace</i> with the following: This Standard was prepared by the Standards Australia Committee CH-032, Particle Size Analysis. 2 After the first paragraph, <i>add</i> the following: Amendment No. 1 to this Standard was prepared by the Standards Australia Committee NT-001, Nanotechnologies. 3 After the fourth paragraph, <i>add</i> the following: This Standard is identical with, and has been reproduced from, ISO 9276-4:2001, <i>Representation of results of particle size analysis, Part 4: Characterization of a classification process</i> and its Amendment No. 1 (2017) which has been added at the end of this source text.
Amd 1 (new)	After the Bibliography, <i>add</i> the following Amendment No. 1 (2017):

Amendment 1

Whole document

Replace “density distribution” with “distribution density”.

2.1 Symbols for specific terms, Table 1

Add “, Partial classification efficiency” after “Grade efficiency” in the Term column for the symbol T .

In the last line, replace the symbol ϕ with φ .

3.2.1 Mass and number balance in the size range from $x_{\min}$ to $x_{\max}$

Add the following paragraph above the last paragraph:

The relative amounts are mass ratios $v_{3,f} = m_f/m_s$, $v_{3,c} = m_c/m_s$ or number ratios $v_{0,f} = n_f/n_s$, $v_{0,c} = n_c/n_s$.

3.3.2 The equiprobable cut size, x_e , the median of the grade efficiency curve

In the last sentence of the first paragraph, delete the word “weighed” before the word “feed”.

3.5.3 Parameters derived from cumulative distribution curves

In the first sentence of the first paragraph, replace $Qr_0(x)$ with $Qr_s(x)$.

A.1 General

In the first sentence of the first paragraph, replace “clause 4” with “Clause 3”.

In the fourth paragraph, add “by Herrmann and Leschonski^[5]” before “in Figure A.1”.

A.3 The evaluation of the grade efficiency curve, $T(x)$, from erroneous cumulative size distribution

In Formulae A.11 and A.12, replace the minus (–) sign with a plus (+) sign.

Replace formula number (13) with (A.13).

Bibliography

Replace Reference [2] with the following and delete the footnote:

[2] ISO 9276-2:2014, *Representation of results of particle size analysis — Part 2: Calculation of average particle sizes/diameters and moments from particle size distributions*