

Zinc Fertilizer Seal of Approval – Brazil

Based upon the Code of Practice for zinc fertilizer developed for the International Zinc Association (IZA), Table 1 sets the specifications for the limits of impurities in zinc sources for use in fertilizer. Table 2 provides the minimum level of zinc in common zinc fertilizer products.

Table 1. Limits for impurities in Zn fertilizers

Element	Maximum allowed concentration per 1% Zn (mg/kg)	Maximum allowed concentration per kg Zn (mg element/kg Zn)	Maximum allowed concentration in ZnO (mg element/kg pure ZnO)	Maximum allowed concentration in ZnSO ₄ (heptahydrate) (mg element/kg pure ZnSO ₄ .7H ₂ O)
As	60	6000	4820	1365
Cd	6.8	680	546	155
Cr	81	8100	6508	1843
Hg	130	130	104	30
Pb	5.3	530	426	121

Table 2. Minimum zinc content required

	ZnO	ZnSO ₄ .7H ₂ O	ZnSO ₄ .H ₂ O
Zinc	72%	23%	33%

To qualify for the Zinc Fertilizer Seal of Approval, the following audit requirements must be met by the company:

- Submission of company product specifications for zinc and impurities
- Submission of quarterly product analysis, for review and comparison with the impurity limits
- Submission of 1 kg of product sample every 6 months, for testing by an independent laboratory selected by IZA
- At a minimum, random testing of company's product in the marketplace will be conducted twice a year for verification.

The Seal of Approval will be granted on a conditional basis once the product specifications and 1st quarterly analysis are provided and deemed to meet the requirements. A company's use of the Seal can be stopped at anytime if the audit requirements, and standards, listed above are not met per the assessment of the IZA.¹

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