

SULPHUR

Feed Grade Sulphur

Identification

Chemical Substances

Sulphur

Synonyms:

Granular sulphur

CAS No. 7704349

EINECS No.

Description

SULPHUR is a yellow to dirty yellow, fine powder. It is free from visible impurities and foreign matter.

Feed grade SULPHUR is a non-toxic material.

Composition, Typical values

Sulphur	99.86%
Mineral residue	0.07%
Carbon	0.07%
Arsenic	0.002 %

Physical Properties

Appearance	Yellow to dirty yellow, fine powder
Bulk Density (untamped)	0.88 kg/dm ³
Chemical solubility and biological availability	High

Recommended Use / Application

This product is recommended for use in ruminant diets, where non-protein nitrogen (NPN) supplies a large portion of the protein. In these cases it is necessary to supply supplementary sulphur in the diet.

In feed mixes containing non-protein nitrogen (NPN) FEED GRADE SULPHUR should be added at a level determined by the urea content of the diet. This will normally vary between 0.5 and 1.0 kg per ton.

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P R O D U C T I N F O R M A T I O N

FEEDS GRADE SULPHUR together with FEED GRADE UREA may be added to low quality roughages at the rate of 1.0-kg SULPHUR to 1 ton roughage to supply additional sulphur, which will improve the conversion of NPN to protein. This will lead to better intake and utilization of the treated roughage.

FEED GRADE SULPHUR can be added to phosphorus licks as a preventative measure against prussic acid poisoning in wilted pastures. Five percent FEED GRADE SULPHUR is normally recommended.

Special Advantages

High purity makes inclusion at low levels possible.

Caution

SULPHUR may burn when exposed to heat and flames, emitting highly toxic fumes of oxides and sulphur. Sulphur dust is highly dangerous as it may explode. It can also cause severe eye irritation.

Undesirable Elements¹

Arsenic (As)

Lead (Pb)

Act 36/1947

Max 15 mg/kg

Max 30 mg/kg

Sulphur Values

Max 2 mg/kg

Max 100 mg/kg

Quality Check References

Moisture (free moisture)

(AOAC) Official Methods of Analysis, 1990, 15th Ed. 965.08 Vacuum-Desiccation Methods First Action 1965 Final Action 1974.

Undesirable elements

AOAC Official Methods of Analysis, 15th Ed., Cd, 974.27, As, 957.22.

Classification, packaging and labelling

SULPHUR is packed in 25kg polyethylene bags.

Handling and storage

SULPHUR must be stored away from heat and naked flames, under cover in a cool dry place to ensure a shelf life of at least 3 years.

