

# Manganese Oxide (II) MnO



## ■ Properties

Appearance	Brown powder
Classification	Nutritional additive trace-element Manganese (II) oxide (3b502) Manganese (Mn) : 61% (typical value)

## ■ Chemical analysis

Mn	61 % min $\pm$ 1	MnO <sub>2</sub>	2%
AS - Arsenic <sup>(1)</sup>	< 100,0 ppm	Dioxins <sup>(1)</sup>	< 1 ng/kg i-TEQ
Cd - Cadmium <sup>(1)</sup>	< 30,0 ppm	Dioxins and dioxin-like PCBs <sup>(1)</sup>	< 1,5 ng/kg i-TEQ
Hg - Mercury <sup>(2)</sup>	< 1 ppm	Non-dioxin-like PCBs <sup>(1)</sup>	< 10 µg/kg i-TEQ
Pb - Lead <sup>(1)</sup>	< 200 ppm		

1) According to directive 2002/32/CE and amendments.

2) According to AFCA-CIAL recommendations.

## ■ Usage information

Directions for use	Can be used in feed for all animal categories at a maximum content of manganese (Mn) in mg/kg in the complete feed with 12% of humidity : <ul style="list-style-type: none"> <li>Fish: 100 (total)</li> <li>Other species: 150 (total)</li> </ul> The additive shall be incorporated into feed in the form of a premixture. Manganese (II) oxide may be placed on the market and used as an additive consisting of a preparation.
Contra-indications and warnings	Shall not be used in water for drinking. For users of the additive and premixtures, feed business operators shall establish operational procedures and appropriate organisational measures to address the potential risks by inhalation, dermal contact or eyes contact, in particular due to the content of heavy metals including nickel. Where risks cannot be reduced to an acceptable level by these procedures and measures, the additive and premixtures shall be used with appropriate personal protective equipment.

## ■ Other information

Packaging	Bags of 25 kg Big Bag of 1250kg
Storage	Store away from heat sources and humidity. Shelf life : 36 months after manufacturing in original packaging



**α FR 56024003**

