

BONDERITE M-AD 99

Known as Grano Toner 99

January 2018

PRODUCT DESCRIPTION

BONDERITE M-AD 99 provides the following product characteristics:

Technology	Metal Pretreatment
Product Type	Additive for zinc phosphating baths
Application	Immersion or spray
Accelerator	Hydroxylamine

Application Areas:

BONDERITE M-AD 99 is a liquid product to increase the HA-content in zincphosphating baths together with decreasing "Free Acid".

TECHNICAL DATA

Appearance:	colourless solution
Composition:	inorganic salt, water
Density, g/cm ³	~1.0
pH-Value	Alkaline

DIRECTIONS FOR USE

Preliminary Statement:

Prior to use it is necessary to read the **Material Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

Bath make-up, for 1,000 L:

BONDERITE M-AD 99 can be used to increase the HA-content in zincphosphate baths together with decreasing "Free Acid".

To increase the accelerator content by 0.1 g/L add to the 1,000 L bath:

BONDERITE M-AD 99 1.0 kg = 1.0 L

With this addition the "Free Acid" decreases 0.3 points.

BONDERITE M-AD 99 shall be added to the zincphosphating bath very slowly and pre-diluted (approx. 1:4) in an area of the bath where the bath agitation is very good to avoid over-neutralization (sludge formation).

Classification:

Please refer to the corresponding **Material Safety Data Sheets** for details on:

Hazards identification

Transport information

Regulatory information

Storage:

Recommended Storage Temperature, °C 0 to 40
Shelf life, months 12
(in unopened original packaging)

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Reference 0.1