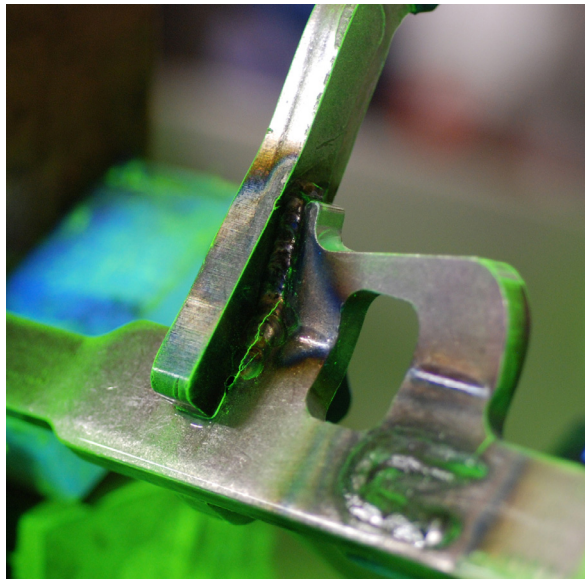


FLUORESCENT INSPECTION MEDIA FOR MAGNETIC PARTICLE TESTING

For the magnetic particle testing the HELLING Company offers a complete line of fluorescent inspection media in form of dry powders, liquid and dry concentrates and ready-to-use oil-based suspensions.

The HELLING **Dry Magnetic Powders** excel in their high fluorescence coefficient, defined grain size distribution as well as purity and assure the indication even of the finest defects.

The liquid and dry concentrates for preparing of water-based magnetic particle suspensions contain all necessary wetting, antifoam and antirust agents. These concentrates are used even for the inspection of corrosion-sensitive parts. The usage of concentrates also helps to cut down the shipping and storing costs considerably.



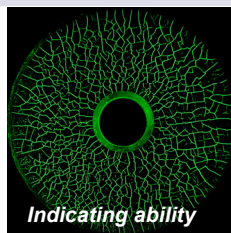
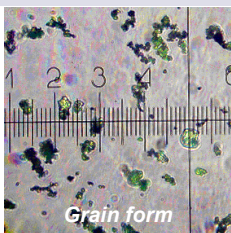
Crack indication resulted from application of the water-based suspension prepared by use of Super Magna LY 1500 dry concentrate.

The ready-to-use suspensions are an ideal inspection material for testing on construction sites and mounting pads or for sampling inspection. The suspensions are based on colorless, odor-free, non-irritant, low-viscosity oils. The oils have no intrinsic fluorescence, that is why the very contrasting and brilliant defect indication is achieved.

Furthermore the HELLING delivery program also includes **aerosol systems** (V.O.C. free) for quick, handy and efficient magnetic particle testing, even in the field conditions.

The inspection media from HELLING meet the requirements of ASME-Code, Sect. V, ASTM E 709 and EN ISO 9934.

Super Magna LY 2500



Fluorescence coefficient (Cd/W)

2,8

Average grain size (µm)

4

Recommended concentration (g/l)

0,4-1

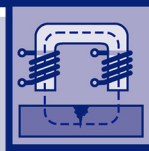
Sedimentation (1 g/l)/100ml

0,25

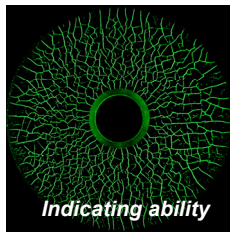
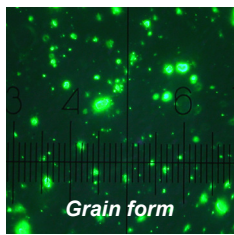
Delivery form:

Note:

Art.No.135.001.040	Pure magnetic powder	1 kg container	1 kg sufficient for 2500 l suspension. For water based suspensions use BC 502 Additive!
Art.No.135.103.301	Liquid water-based concentrate 1:40	1 L can	Contains wetting, antifoam (silicone free) and antirust agents. Halogens free.
Art.No.135.103.304	Liquid water-based concentrate 1:40	5 L can	Contains wetting, antifoam (silicone free) and antirust agents. Halogens free.
Art.No.135.103.115	Dry concentrate 10g:1L	1 kg container	Contains wetting, antifoam (silicone free) and antirust agents.
Art.No.135.103.216	Ready-to-use oil-based suspension	1 L can	
Art.No.135.103.217	Ready-to-use oil-based suspension	10 L can	



Super Magna LY 2300



Fluorescence coefficient (Cd/W)

Average grain size (µm)

Recommended concentration (g/l)

Sedimentation (1 g/l)/100ml

3,4

6

0,4-1

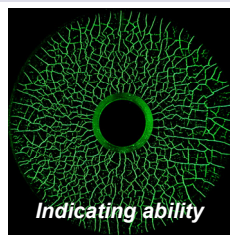
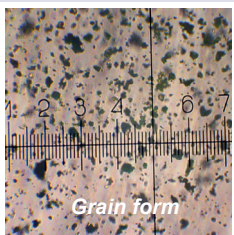
0,25

Delivery form:

Note:

Art.No.135.001.150	Pure magnetic powder	1 kg container	1 kg sufficient for 2500 l suspension. For water based suspensions use BC 502 Additive!
Art.No.135.103.401	Liquid water-based concentrate 1:40	1 L can	Contains wetting, antifoam (silicone free) and antirust agents. Halogens free.
Art.No.135.102.216	Ready-to-use oil-based suspension	1 L can	
Art.No.135.102.217	Ready-to-use oil-based suspension	10 L can	

Super Magna LY 1500



Fluorescence coefficient (Cd/W)

Average grain size (µm)

Recommended concentration (g/l)

Sedimentation (1 g/l)/100ml

5,2

12,5

0,6-1,5

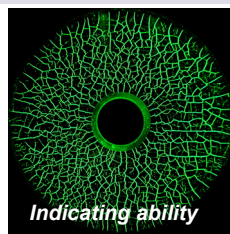
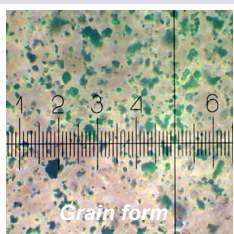
0,2

Delivery form:

Note:

Art.No.135.001.010	Pure magnetic powder	1 kg container	1 kg sufficient for 1500 l suspension. For water based suspensions use BC 502 Additive!
Art.No.135.103.501	Liquid water-based concentrate 1:40	1 L can	Contains wetting, antifoam (silicone free) and antirust agents. Halogens free.
Art.No.135.103.504	Liquid water-based concentrate 1:40	5 L can	Contains wetting, antifoam (silicone free) and antirust agents. Halogens free.
Art.No.135.101.118	Dry concentrate 10g:1L	1 kg container	Contains wetting, antifoam (silicone free) and antirust agents. Halogens free.
Art.No.135.101.216	Ready-to-use oil-based suspension	1 L can	
Art.No.135.101.217	Ready-to-use oil-based suspension	10 L can	

Super Magna CGY 4000



Fluorescence coefficient (Cd/W)

Average grain size (µm)

Recommended concentration (g/l)

Sedimentation (1 g/l)/100ml

11,3

14

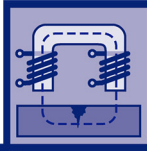
0,5-1,5

0,2

Delivery form:

Note:

Art.No.135.001.180	Pure magnetic powder	1 kg container	1 kg sufficient for 1500 l suspension. For water based suspensions use BC 502 Additive!
Art.No.135.104.114	Liquid water-based concentrate 1:50	1 L can	Contains wetting, antifoam (silicone free) and antirust agents. Halogens free.
Art.No.135.104.118	Dry concentrate 10g:1L	1 kg container	Contains wetting, antifoam (silicone free) and antirust agents. Halogens free.
Art.No.135.104.216	Ready-to-use oil-based suspension	1 L can	
Art.No.135.104.217	Ready-to-use oil-based suspension	10 L can	



COLOR INSPECTION MEDIA FOR MAGNETIC PARTICLE TESTING

Along with the fluorescent inspection media the HELLING delivery program includes diverse color consumables like dry powders, concentrates and ready-to-use oil-based suspensions.

Dry Magnetic Powders from HELLING are notable for their bright colors, defined grain size distribution and purity. So they serve for a reliable indication even on dark or polished surfaces.

The dry concentrates for preparing of water-based magnetic particle suspensions contain all necessary wetting, antifoam and antirust agents. These concentrates are used even for the inspection of corrosion-sensitive parts. The usage of concentrates



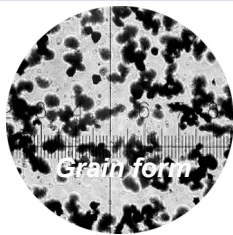
Crack indication resulted from application of the water-based suspension prepared by use of MEF 515 dry concentrate.

also helps to cut down the shipping and storing costs considerably.

The ready-to-use suspensions are an ideal inspection material for testing on construction sites and mounting pads or for sampling inspection. The suspensions are based on colorless, odor-free, non-irritant, low-viscosity oils. Furthermore the HELLING delivery program also includes **aerosol systems** (V.O.C. free) for quick, handy and efficient magnetic particle testing, even in the field conditions.

The inspection media from HELLING meet the requirements of ASME-Code, Sect. V, ASTM E 709 and EN ISO 9934.

BW 333



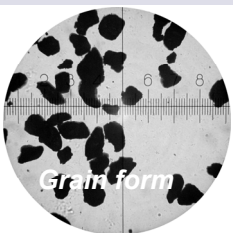
Color	Average grain size (µm)	Recommended concentration (g/l)	Sedimentation (1 g/l)/100ml
Black	4	3-5	0,1

Delivery form:

Note:

Art.No.135.002.010	Pure magnetic powder	1 kg container	1 kg sufficient for 200-300 l suspension. For water based suspensions use BC 502 Additive!
Art.No.135.100.301	Dry concentrate 15g:1L	1,5 kg container	Contains wetting, antifoam (silicone free) and antirust agents. Halogens free.
Art.No.135.002.031	Liquid water-based concentrate 1:50	1L can	Contains wetting, antifoam (silicone free) and antirust agents. Halogens free.
Art.No.135.100.216	Ready-to-use oil-based suspension	1 L can	
Art.No.135.100.217	Ready-to-use oil-based suspension	10 L can	

WD 105

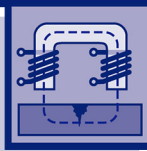


Color	Average grain size (µm)	Recommended concentration (g/l)	Sedimentation (1 g/l)/100ml
Grey-white	37	5	0,1

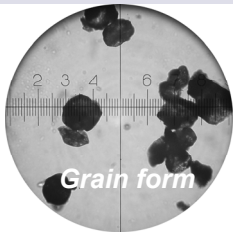
Delivery form:

Note:

Art.No.135.001.530	Pure magnetic powder	1 kg container	1 kg sufficient for 200 l suspension. For water based suspensions use BC 502 Additive!
	Dry concentrate 15g:1L	1,5 kg container	Contains wetting, antifoam (silicone free) and antirust agents. Halogens free.



TGL hellorange



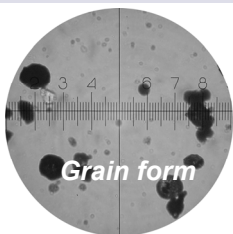
Color	Average grain size (µm)	Recommended concentration (g/l)	Sedimentation (1 g/l)/100ml
Orange	47	5	0,3

Delivery form:

Note:

Art.No.135.001.511	Pure magnetic powder	1 kg container	1 kg sufficient for 200 l suspension. For water based suspensions use BC 502 Additive!
	Dry concentrate 15g:1L	1,5 kg container	Contains wetting, antifoam (silicone free) and antirust agents. Halogens free.

TGL 11



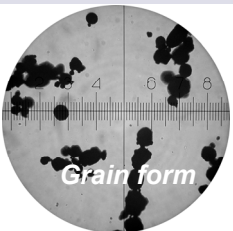
Color	Average grain size (µm)	Recommended concentration (g/l)	Sedimentation (1 g/l)/100ml
Red	35	5	0,3

Delivery form:

Note:

Art.No.135.001.510	Pure magnetic powder	1 kg container	1 kg sufficient for 200 l suspension. For water based suspensions use BC 502 Additive!
	Dry concentrate 15g:1L	1,5 kg container	Contains wetting, antifoam (silicone free) and antirust agents. Halogens free.

WW 50



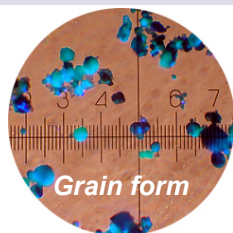
Color	Average grain size (µm)	Recommended concentration (g/l)	Sedimentation (1 g/l)/100ml
Grey-white	30	5	0,25

Delivery form:

Note:

Art.No.135.003.030	Pure magnetic powder	1 kg container	1 kg sufficient for 200 l suspension. For water based suspensions use BC 502 Additive!
	Dry concentrate 15g:1L	1,5 kg container	Contains wetting, antifoam (silicone free) and antirust agents. Halogens free.

TGL 12

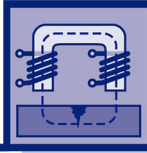


Color	Average grain size (µm)	Recommended concentration (g/l)	Sedimentation (1 g/l)/100ml
Green	35	5	0,3

Delivery form:

Note:

Art.No.135.001.520	Pure magnetic powder	1 kg container	1 kg sufficient for 200 l suspension. For water based suspensions use BC 502 Additive!
	Dry concentrate 15g:1L	1,5 kg container	Contains wetting, antifoam (silicone free) and antirust agents. Halogens free.



AEROSOL SYSTEMS FOR MAGNETIC PARTICLE TESTING

The consumables in spray cans are used for a quick, handy and efficient testing, also in test labs and in field conditions.

The HELLING aerosol suspensions both oil-based and water-based excel in their indicating ability and serve for detection of the finest cracks. Due to the economic consumption and ease of application they are an ideal inspection material for testing on construction sites and mounting pads or for sampling inspection.

The HELLING aerosol systems are V.O.C. free and meet the requirements of ASME-Code, Sect. V, ASTM E 709 and EN ISO 9934

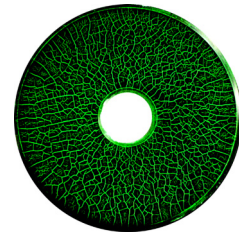


Weld joint inspection on a bridge by use of BW 333 black magnetic particle suspension and NR 104 A white background paint.

LY 2500

Art.No.135.005.611

A fluorescent water-based magnetic particle suspension. The suspension contains all necessary wetting, antifoam and antirust agents and provides a very high sensitivity. The average grain size of magnetic particles is about 4 μm .
Contents: 400 ml.



BW 333

Art.No.135.005.601

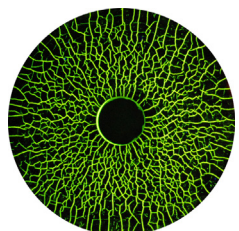
A black water-based magnetic particle suspension. The suspension contains all necessary wetting, antifoam and antirust agents and provides a high sensitivity. The average grain size of magnetic particles is about 4 μm .
Contents: 400 ml.

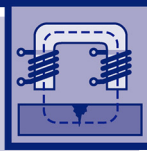


NRF 101

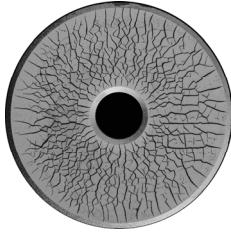
Art.No.135.005.050

A fluorescent magnetic particle suspension based on odor-free oil with a high flash point. The suspension is a good corrosion inhibitor and provides a very high sensitivity. The average grain size of magnetic particles is about 4 μm .
Contents: 400 ml.





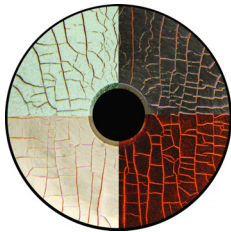
NRS 103 S



Art.No.135.005.071

A black magnetic particle suspension of high sensitivity. It is based on odor-free oil with a high flash point and is a good corrosion inhibitor. The average grain size of magnetic particles is about 4 μm .
Contents: 400 ml.

MEF 515



A red, fluorescent, oil-based magnetic particle suspension, which provides a contrast indication even on black and polished part surfaces, on the white background paint as well as under UV irradiation. The average grain size of magnetic particles is about 10 μm .
Contents: 400 ml.

NR 104 A



Art.No.135.006.020

A white background paint which is a white pigment suspension in a slightly volatile solvent, doesn't content chlorinated hydrocarbons. Dries quickly (about 1 min. at 20°C) and produces a smooth, uniformly white background coating. To be applied as a thin layer with a thickness up to 30 μm .
Contents: 400 ml.

NR 104 A/S



Art.No.135.006.021

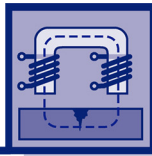
A white *re-dyeable* background paint which shouldn't be removed before further painting. No chlorinated hydrocarbons. Dries quickly (about 2 min. at 20°C) and produces a smooth, uniformly white background coating. To be applied as a thin layer with a thickness up to 30 μm .
Contents: 400 ml.

NR 107



Art.No.135.006.050

Remover for background paint.



OILS AND ADDITIVES

Oil for magnetic particle inspection No. 01500

Art.-Nr.135.007.050 - 10 L can
Art.-Nr.135.007.060 - 200 L cask

Low-viscosity oil carrier for preparation of magnetic particle suspensions. Aging-resistant, odor-free, colorless, non irritating, without intrinsic fluorescence.



Oil for magnetic particle inspection No. 4965

Art.-Nr.135.007.020 - 10 L can
Art.-Nr.135.007.030 - 200 L cask

Low-viscosity oil carrier for preparation of magnetic particle suspensions. *Totally evaporating*. Aging-resistant, odor-free, colorless, non irritating, without intrinsic fluorescence.



Magna-Proof 585 Additive

Art.No.135.007.180 - 1 L bottle
Art.No.135.007.190 - 10 L can

A composition of water, alkalonamines and corrosion inhibitors. It serves for distribution and mobility of magnetic powder particles and provides the water-based suspensions with wetting (surface-active) as well as corrosion-preventive properties.

Dosage: 20-50 ml per 1 L of ready-to-use water-based magnetic particle suspension.



BC 502 Additive

Art.No.135.007.080 - 1 L bottle
Art.No.135.007.090 - 10 L can

A composition of water, amine borate, anionic and nonionic surfactants. It is used as wetting (surface-active), antifoam and corrosion-preventive agent for preparation of water-based magnetic particle suspensions.

Dosage: 20-50 ml per 1 L of ready-to-use water-based magnetic particle suspension.



RS 601 corrosion-preventive compound

Art.No.135.008.080 - 1 L bottle

A compound based on amine borate. Good water-soluble, almost colorless. It is used for production of aerosols, cleaning liquids, fluids for metal working, as well as in cooling and hydraulic systems.

Dosage: 10 ml per 1 L of water or ready-to-use water-based magnetic particle suspension

