



# Penetrant Testing

*Product information*  
*MR<sup>®</sup>-System "Hot"*



## MR<sup>®</sup>-System "Hot"

for temperatures between +30 °C and +200°C  
for penetrant testing according to EN ISO 3452-5

### General appearance and composition:

MR<sup>®</sup>-System „Hot“ consists of:

- MR<sup>®</sup> 68 H Penetrant red, system "hot"  
solvent removable penetrant red  
without AZO-dye-stuff
- MR<sup>®</sup> 91 H Remover, system "hot"  
special remover for „Hot“-testing  
mixture of hydrocarbons with special additives
- MR<sup>®</sup> 70 H Developer white, system "hot"  
special developer for „Hot“-testing  
hydrocarbon based carrier medium with special, modified solid components
- The system is suitable for work piece temperatures between +30 °C and +200°C

### Application:

- Check work piece temperature, e.g. by using our MR<sup>®</sup> Temperature gauge TFI 100.
- Remove tinder, rust and other contaminations from surface in a suitable manner.
- Apply MR<sup>®</sup> 68 H Penetrant red, system "hot" to the part to be tested either by spraying or brushing.  
Approximate values for penetration time: > 30 °C 180 s, > 100 °C 60 s, 150 °C 30-40 s
- Remove access penetrant from surface with MR<sup>®</sup> 91 H Remover, system "hot", if possible using a clean lint-free cloth.
- Spray MR<sup>®</sup> 70 H Developer white, system "hot" from a distance of approx. 20 cm on the dry surface, achieving a thin, uniform layer. Discontinuities will appear as red indications. Please note: If the developer layer is too thick tiny discontinuities will not appear through the developer.

### Safety precautions:

- On use in higher temperature ranges, the risks associated with this should be adequately considered. Burns to the skin, flammability and vapour build up of substances may mean corresponding dangers. The work area must always be suitably ventilated and personnel exposure carefully assessed.

### Minimum durability:

- will keep for a minimum of 4 years, stored at room temperature

### Pack sizes:

- MR<sup>®</sup> 68 H Penetrant red, system "hot":  
aerosols, 500 ml (1 box contains 12 aerosols), 1 L, 5 L
- MR<sup>®</sup> 91 H Remover, system "hot":  
aerosols, 500 ml (1 box contains 12 aerosols), 5 L
- MR<sup>®</sup> 70 H Developer white, system "hot":  
aerosols, 500 ml (1 box contains 12 aerosols), 1 L, 5 L

