

## Corrosion Preventing Characteristics of Water-Mixed Cooling Lubricants (manual)

DIN 51360-1, IP 125

**Product group(s):** Oil

**User group(s):** Cooling Lubricant

**Scope:** This method is accordingly designed to assess the behavior of such fluids in contact with typical metal, cast iron, and is applicable to samples submitted either as an aqueous fluid as used in practice or as a concentrate requiring dilution with water.

DIN 51 360-1 and IP 125:

determination of corrosion-preventing characteristics of water-mix metalworking fluids.

Herbert corrosion test:

is designed to assess the behavior of the corrosion of aqueous cutting fluids being in contact with cast iron under presence of steel millings.



**Herbert Corrosion Test Assembly**

More details are mentioned in the "Order Number" section

### Main Unit

<b>16-0281</b>	<b>Herbert Corrosion Test Assembly</b> IP 125 - DIN 51 360-1
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Consisting of:

acrylic test chamber, desiccator plate with space for 4 test plates, glass tripod and bottom plate, infinitely adjustable electric stirrer with 0 to 2300 rpm (also usable for sample preparation together with included stirrer blade) and a standardized propeller, a thermometer (-2 ... +105 : 0.5 °C), 250 ml bottle of steel millings, sieve of 0.63 mm mesh size and covered dish, 1 test plate of cast iron, grinding vice for the iron plates and grinding paper of 150-grit and 240-grit - 1 pack each containing 10 sheets. (Sample preparation support matter not included).

Power supply: 230 V, 50/60 Hz

<b>16-0282</b>	<b>Herbert Corrosion Test Assembly</b> Like 16-0281 but: Power supply: 115 V, 50/60 Hz
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### Options & Accessories

<b>16-0244</b>	<b>Syringe, 50 ml volume complete with needle</b>
<b>16-0300</b>	<b>DIN-Sample Preparation Support Matter</b> to hold the Herbert stirrer unit and a 1000 ml or 3000 ml beaker
<b>10-0106</b>	<b>Beaker, 1000 ml , borosilicate glass, low shape with spout</b>
<b>16-0150</b>	<b>Glass Jar as bath, 3000 ml</b> made of borosilicate glass
<b>25-0140</b>	<b>Automatic Device for grading particles</b> to be used with sieves of 16-0281 and 16-0286 Power supply: 230 V, 50 Hz

**25-0139 Automatic Device for grading particles**

Like 25-0140 but:  
Power supply: 115 V, 60 Hz

**Spare Parts**

**11-0022 Thermometer**  
Range: 0 to +105 : 0.5 °C

**11-0030 Stopper, NBR-rubber (18/20 / bored Ø 7.5 mm)**

**13-0719 Silicon Carbide Grit Paper, 150 grit (P150), 10 sheets**

**13-0720 Silicon Carbide Grit Paper, 240 grit (P280), 10 sheets**

**16-0237 Glass Tripod, Ø 240 x 200 mm**

**16-0238 Glass Bottom Plate**

**16-0241 Metal Test Specimens - Code: 03-50  
for Herbert Test**  
DIN 51 360-1 - IP 125  
  
Material/Composition: Grey cast iron  
Dimension: 100 x 100 x 6 mm  
Pack/Set: 1

**16-0242 Metal Test Specimens - Code: 01-29  
for Herbert Test**  
DIN 51 360-1 - IP 125 - IP 287  
  
Material/Composition: Steel millings  
Pack/Set: 225 ml bottle

**16-0243 Grinding Device**

**16-0283 Test Chamber, 75 liter**

**Order Guideline**

Minimum equipment: 1x 16-0281  
Spares (approx. 1 year): 11-0022, Silicon Carbide, 16-0237, 16-0241,  
16-0242, 16-0238

Additional requirements: