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|--|---|--|
| <b>Device test card for eDRAULIC spreader</b>                            |   |  |
| <b>for test equipment with electronic measuring transducer 176717000</b> |   |  |
| <b>Device type:</b>  | <b>Model:</b>   | <b>LUKAS</b>   |
| <b>Serial no.:</b>   |   |  |
| <b>Device holder:</b>  |   |  |
| <b>Regulations:</b>  | - operating instructions (device) - GUV-G 9102<br>- operating instructions (test equipment) | <b>Test interval</b><br>- according to GUV-G 9102<br>- after repair work |

**Basic safety instructions:**

 **WARNING / CAUTION / PLEASE NOTE!**  
Personal protective equipment must ALWAYS be worn when testing devices!

 In addition, adequate screening\*) must ALWAYS be worn when carrying out the tests!  
LUKAS rescue equipment may only be tested with LUKAS test equipment!

\*) Appropriate screening may be obtained from your authorized LUKAS dealer or directly from LUKAS!

 **NOTE:**  
Before using this test card, ensure that the card is up to date and only use the latest version.  
The latest device test cards may be obtained from the LUKAS website or directly from LUKAS.

**Test devices required for spreader:**

- Spreader and combination test device
- Positioning bolts and spacer disks
- Measuring transducer
- Crack test set
- Stop watch
- Appropriate protective screening

**Evaluation:**

|  |  |  |  |  |  |
|--|--|--|--|--|--|
| <b>Results:</b>                          |  |  |  |  |  |
| Repaired on:                             |  |  |  |  |  |
| Released for use on:                     |  |  |  |  |  |
| Blocked / no longer approved for use on: |  |  |  |  |  |
| Signature of test person:                |  |  |  |  |  |

**Visual Inspection:**

| Tests   | Target value | Results | Results | Results | Results |
|---|--------------|---------|---------|---------|---------|
| Housing undamaged, locked and ventilation slots free and clean  |              |         |         |         |         |
| Connection duct clean and undamaged   |              |         |         |         |         |
| Opening width of spreader arms at the tips  | 1)           |         |         |         |         |
| General sealing (leaks)   |              |         |         |         |         |
| Operability of the star grip  |              |         |         |         |         |
| Existence and stability of handle   |              |         |         |         |         |
| Labels complete and legible   |              |         |         |         |         |
| Covers in perfect condition   |              |         |         |         |         |
| Spreader tips and arms without cracks and notches   |              |         |         |         |         |
| Pins and retaining rings on the spreader arms are present and in a proper condition,                          |              |         |         |         |         |
| Corrugation of the tips clean and well-edged, no tears  |              |         |         |         |         |
| The tips must be in place and locked  |              |         |         |         |         |
| Easy locking of the tip   |              |         |         |         |         |
| Illumination of main switch, work area and connection duct fully function (if this forms part of the device). |              |         |         |         |         |
| Electrical contact surfaces clean and undamaged   |              |         |         |         |         |
| Power pack housing undamaged  |              |         |         |         |         |
| Power pack cables undamaged   |              |         |         |         |         |
| Battery housing undamaged   |              |         |         |         |         |
| Battery/batteries fully charged   |              |         |         |         |         |
| Charging state display of lithium/ion battery or batteries fully functional                                   |              |         |         |         |         |

1) The target values are to be taken out of the data table for LUKAS rescue equipment and entered in the test table.

**Remarks about visual inspection:**

**Functional test:**

| Tests  | Target value      | Results | Results | Results | Results |
|--|-------------------|---------|---------|---------|---------|
| Environmental temperature during functional test °C / °F   | 15...35 / 59...95 |         |         |         |         |
| Main switch is fully functional without faults   |                   |         |         |         |         |
| No further movement when releasing the star grip while extending or retracting                   | 3)                |         |         |         |         |
| Arm play in direction of force [a1]  | 2)                |         |         |         |         |
| Arm play perpendicular to the direction of force; offset [v2]                                    | 2)                |         |         |         |         |
| Tip play in direction of force [a2]  | 2)                |         |         |         |         |
| Tip play perpendicular to the direction of force; offset [v6]                                    | 2)                |         |         |         |         |
| Opening time, unloaded (in seconds)  | 2)                |         |         |         |         |
| Closing time, unloaded (in seconds)  | 2)                |         |         |         |         |
| Spreading force test   | 2)                |         |         |         |         |
| Pressure or spreader force maintenance test<br>Loss of pressure or spreader force after 1 minute | max. 10%          |         |         |         |         |
| Closing force test   | 2)                |         |         |         |         |
| Pressure or closing force maintenance test<br>Loss of pressure or force after 1 minute           | max. 10%          |         |         |         |         |

2) The target values are to be taken out of the data table for LUKAS rescue equipment and entered in the test table.

3) The star grip must automatically return to the neutral position and the spreader arms may not automatically change position once they have returned to the neutral position (no run-on). If the conditions above are not met, a valve test must be carried out.

**Remarks about functional test:**