

# QUALITY CERTIFICATION

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| <b>HOSE:</b> HYDRAULIC HOSE EN 856 4SH 1-1/2"<br><b>NORM:</b> DIN 20023 4SH<br><b>FIRM:</b><br><b>ORDER NO.:</b> | <b>CODE:</b><br><b>REPORT NO.:</b> 2024T0927005<br><b>DATE OF TEST:</b> 2024/09/26<br><b>DATE OF REPORT:</b> 2024/09/27 |
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| TEST NMAE  | SPECIFICATION | RESULT      |             |             | METHOD       |
|--|---------------|-------------|-------------|-------------|--------------|
|  |               | NO:1        | NO:2        | NO:3        |              |
| <b>1.0 DIMENSION CONTROL</b>                                     |               |             |             |             | EN 24671     |
| 1.1 Inside Diameter, mm  | 37.8-38.3     | 38.1        | 38          | 37.9        |              |
| 1.2 Outside Diameter, mm   | 53.2-53.6     | 53.4        | 53.5        | 53.5        |              |
| 1.3 Concentricity (internal-outside/diameter)                    | MAX:0.8       | 0.8         | 0.6         | 0.5         |              |
| 1.4 Cover wall thickness mm                                      | 0.8-2.5       | OK          | OK          | OK          |              |
| 1.5 Inner compound   | NBR           | OK          | OK          | OK          |              |
| 1.6 Inner compound code  | 1201          | OK          | OK          | OK          |              |
| 1.7 Cover compound   | CR/NBR        | OK          | OK          | OK          |              |
| 1.8 Cover compound code  | 2106          | OK          | OK          | OK          |              |
| <b>2.0 HYDROSTATIC TEST</b>                                      |               |             |             |             | EN ISO 1402  |
| 2.1 Working Pressure, kgf/cm <sup>2</sup>                        | 290           | OK          | OK          | OK          |              |
| 2.2 Change Elongation at W.P. %                                  | +2/-4         | 0.6         | 0.7         | 0.5         |              |
| 2.3 Proof Pressure, kgf/cm <sup>2</sup>                          | 580           | OK          | OK          | OK          |              |
| 2.4 Burst Pressure, kgf/cm <sup>2</sup>                          | MIN:1160      | 1325        | 1410        | 1390        |              |
| 2.5 Minimum Bend Radius, (180mm) %                               | MAX:1.0       | OK          | OK          | OK          |              |
| 2.6 Working temp. MAX (-40°C/+100°C)                             |               | OK          | OK          | OK          |              |
| <b>3.0 COLD FLEXIBILITY</b>                                      |               |             |             |             | EN 24672/B   |
| 3.1(-40°C/24h) (TUBE)  | No Crack      | Not Cracked | Not Cracked | Not Cracked |              |
| 3.2(-40°C/24h) (COVER)   | No Crack      | Not Cracked | Not Cracked | Not Cracked |              |
| <b>4.0 ADHESIVE</b>  |               |             |             |             | EN 28033     |
| 4.1 Liner-Reinforcement, kgf/cm                                  | MIN:2.5       | No Separate | No Separate | No Separate |              |
| 4.2 Reinforcement - Cover, kgf/cm                                | MIN:2.5       | No Separate | No Separate | No Separate |              |
| <b>5.0 FIULD RESISTANCE</b>                                      |               |             |             |             | ISO 1817     |
| <b>5.1 ASTM NO:3 (CHANGE IN VOLUME)</b>                          |               |             |             |             |              |
| 5.1.1(100°C.72h) (TUBE) %  | 0/100         | 8.25        | 8.25        | 8.25        |              |
| 5.1.2(100°C.72h) (COVER) %                                       | 0/100         | 38.67       | 38.67       | 38.67       |              |
| 6.0 LEAKAGE TEST kgf/cm <sup>2</sup>                             | 610           | OK          | OK          | OK          | EN ISO 1402  |
| 7.0 OZONE RESITANCE (COVER)<br>(40C/50 pphm O3/72h/%20 Elon./ 2X | Rating:0      | Rating:0    | Rating:0    | Rating:0    | EN 27326/1-2 |
| 8.0 VACUUM bar   | MAX:-0.8      | OK          | OK          | OK          |              |
| 9.0 IMPULSE TEST Cycles  | MIN:400.000   | OK          | OK          | OK          | ISO 6803     |

INSPECTOR:  
SIGNATURE:

APPROVED:  
SIGNATURE