

# FEC CHAIN

CORPORATION

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## TEST CERTIFICATE

|                                |   |                                     |
|--------------------------------|---|-------------------------------------|
| Distributor:                   | code #: 1080  | distributor's name: ASAO & CO., LTD |
| Customer:                      |   | customer's name: LK HOIST CO.,LTD   |
| Article name:<br>(Application) | Load chain for electric chain hoist   |                                     |
| Spec. standard                 | <input type="checkbox"/> DIN EN 818-7:2002 , <input type="checkbox"/> JIS B 8812:1999<br><input type="checkbox"/> ISO 3077 , <input checked="" type="checkbox"/> FEC  |                                     |
| Material spec.:                | SAE15B24(Mn-B steel)  |                                     |
| Finish:                        | <input checked="" type="checkbox"/> temper-colored, <input type="checkbox"/> zinc-plated, <input type="checkbox"/> coated( )<br><input type="checkbox"/> zinc-phosphated, <input type="checkbox"/> manganese-phosphated<br><input checked="" type="checkbox"/> oiled, <input type="checkbox"/> no-oiled |                                     |
| Stamping:                      | <input type="checkbox"/> FEC standard, <input checked="" type="checkbox"/> customer's request<br>LKA, JAPAN ,FEC9<br>→ (Lot,6X.6U.6T.8L)  |                                     |

|                |               |
|----------------|---------------|
| Product code#: | FCD11234      |
| description:   | φ 11.2*P34    |
| quality type   | G80/ type-DAT |

|                                 |      |                 | Result      |
|---------------------------------|------|-----------------|-------------|
| Dimention:                      |      |                 |             |
| Nominal diameter( dn )          | [mm] | 11.2 +0.3/-0.3  | 11.2~11.3   |
| Internal width,min.:            | [mm] | 14.7            | 15.0~15.2   |
| external width, max.:           | [mm] | 37.5            | 37.2~37.4   |
| Nominal pitch 1 t               | [mm] | 34.0 +0.4/-0.2  | 34.1~34.2   |
| 5 t                             | [mm] | -               | -           |
| 11 t                            | [mm] | 374.0 +1.3/-0.4 | 374.7~375.1 |
| Diameter at the weld(ds), max.: | [mm] | 12.0            | 11.7~11.9   |

|                                       |         |                   |             |
|---------------------------------------|---------|-------------------|-------------|
| Mechanical properties:                |         |                   |             |
| Working load limit(WLL), max.:        | [ kg ]  | 3000              | -           |
| (drive mechanism g                    |         | -                 | -           |
| Manufacturing proof force(MPF), min.: | [ KN ]  | 98                | 98          |
| Stress at min. MPF                    |         | -                 | -           |
| Guranteed breaking force(BF), min.:   | [ KN ]  | 160               | 199.0~205.0 |
| Stress at min. BF                     |         | -                 | -           |
| Total ultimate elongation(A), min.:   | [ % ]   | 10                | 12~16       |
| Surface hardness/HV3, min.:           | [ - ]   | 500               | 521~541     |
| /HV5, min.:                           | [ - ]   | -                 | -           |
| Hardness /HRC, min.:                  | [ - ]   | -                 | -           |
| Case depth,min.:                      | [ mm ]  | 0.22              | 0.24~0.32   |
| Bend deflection( f ),min.:            | [ mm ]  | no visible defect | OK          |
| Fatigue resistance, min.:             | [cycle] | 2*10 <sup>6</sup> | OK          |

|                   |         |              |
|-------------------|---------|--------------|
| Packing:          |         |              |
| Weight per meter: | [kg/m]  | 2.65         |
| Length 1          | [meter] | 200m-10/pcs  |
| 2                 | [meter] |              |
| Packing           | -       | Steel barrel |

I hereby certify above all is true.

*M. Miwa*

MASAKI MIWA

Quality Assurance Dept.,  
Chief Inspector

issued date: August 24,2019

[Note]

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