

## REPORT TEST RESULTS

Tracking Number: 12711/1-4007/1  
Sample(s) Received at: 03.01.2022  
Delivery to the Laboratory at: 03.01.2022  
Test(s) Finished at: 08.01.2022  
Revision Number: 0  
Number of copy: 1

Page: 7 of 7  
Applicant: Mahyar profil sepan Co.  
Request No. – Date: 1400-11-25 02.01.2022  
Sampling Was done by the customer. Yes ☐ No ☒  
Test was performed in the scope of ISO/IEC 17025 standard certification. Yes ☒ No ☐  
Environmental conditions: temperature 23± 5 LM.F03(04)

### Name/ Specimen Specification:

- Plate 5\*100\*200 mm



### Chemical composition test:

Reference standard: ASTM E415 (2019)

Product standard: EN 10025-2 (2019)

Specimen: 12718 NO.2

|     | Fe     | C      | Si     | Mn     | P      | S      | Cr     | Mo     |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| Ave | 98.3   | 0.0936 | 0.204  | 0.934  | 0.0047 | 0.0075 | 0.0416 | 0.0097 |
|     | Ni     | Al     | Co     | Cu     | Nb     | Ti     | V      | W      |
| Ave | 0.0325 | 0.0324 | 0.0069 | 0.0288 | 0.0507 | 0.0136 | 0.0078 | 0.0616 |
|     | Pb     | Sn     | B      | Zr     | Ca     | Bi     | Ta     | Se     |
| Ave | 0.0098 | 0.0094 | 0.0008 | 0.0262 | 0.0037 | 0.0055 | 0.0353 | 0.0018 |
|     | Zn     |        |        |        |        |        |        |        |
| Ave | 0.0008 |        |        |        |        |        |        |        |

| حدود پذیرش<br>S355J0( 1.0553) | C    | Si   | Mn   | S     | P     | Cu   |
|-------------------------------|------|------|------|-------|-------|------|
| Min                           | -    | -    | -    | -     | -     | -    |
| Max                           | 0.23 | 0.60 | 1.70 | 0.040 | 0.040 | 0.60 |

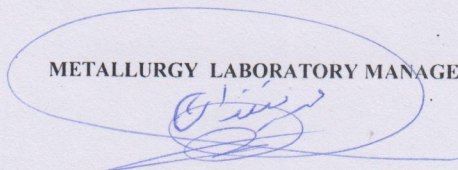
OPERATOR:



CONFIRMED:



METALLURGY LABORATORY MANAGER:



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Test was performed in the scope of ISO/IEC 17025 standard certification. Yes ☒ No ☐

LM.F01(00)

### Name/ Specimen Specification:

- H 14



### Standard Confirmation:

Compare the results of the test are presented in the following table:

|                           |                                            |                                 |
|---------------------------|--------------------------------------------|---------------------------------|
| 1. Chemical analysis test | Accept <input checked="" type="checkbox"/> | Reject <input type="checkbox"/> |
| 2. Tensile test           | Accept <input checked="" type="checkbox"/> | Reject <input type="checkbox"/> |
| 3. Impact Test            | Accept <input checked="" type="checkbox"/> | Reject <input type="checkbox"/> |

According to the results of performed tests, the sample **Complies** with

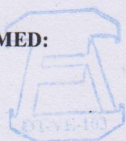
**EN 10025-2(2019)-S355J0(1.0553)**

- The test results are reported in the following pages.

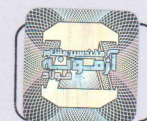
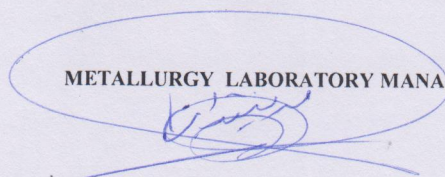
OPERATOR:



CONFIRMED:



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Test was performed in the scope of ISO/IEC 17025 standard certification. Yes ☒ No ☐  
Environmental conditions: temperature  $23 \pm 05$  LM.F06(04)

### Name/ Specimen Specification:

- H 14



### Tensile test

Reference standard: ISO 6892-1 (2019)

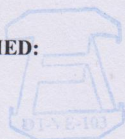
Product standard: EN 10025-2 (2019)

| Specimen ID                       | Width<br>(mm) | Thickness<br>(mm) | Gauge length<br>(mm) | Reduction of Area<br>(%) | Elongation<br>(%) | Y.P<br>Mpa | U.T.S.<br>Mpa |
|-----------------------------------|---------------|-------------------|----------------------|--------------------------|-------------------|------------|---------------|
| 1                                 | 22.25         | 7.18              | 70.01                | 57.7                     | 30.8              | 364        | 554           |
| Standard limit of S355J0 (1.0553) |               |                   |                      | -                        | Min 22            | Min 355    | 470-630       |

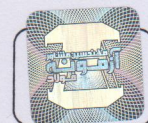
OPERATOR:



CONFIRMED:



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Test was performed in the scope of ISO/IEC 17025 standard certification. Yes ☒ No ☐  
Environmental conditions: temperature 23± °5 LM.F03(04)

### Name/ Specimen Specification:

- H.14



### Chemical composition test:

Reference standard: ASTM E415 (2019)

Product standard: EN 10025-2 (2019)

#### Specimen: 12718 NO.1

|     | Fe       | C      | Si     | Mn       | P        | S        | Cr     | Mo       |
|-----|----------|--------|--------|----------|----------|----------|--------|----------|
| Ave | 97.9     | 0.195  | 0.395  | 1.23     | 0.0172   | 0.0136   | 0.0283 | < 0.0010 |
|     | Ni       | Al     | Co     | Cu       | Nb       | Ti       | V      | W        |
| Ave | 0.0241   | 0.0028 | 0.0083 | 0.0369   | < 0.0010 | < 0.0010 | 0.0043 | 0.0065   |
|     | Pb       | Sn     | B      | Zr       | Ca       | Bi       | Ta     | Se       |
| Ave | 0.0057   | 0.0065 | 0.0008 | < 0.0010 | 0.0007   | 0.0033   | 0.0040 | < 0.0010 |
|     | Zn       |        |        |          |          |          |        |          |
| Ave | < 0.0001 |        |        |          |          |          |        |          |

| حدود پذیرش<br>S355J0( 1.0553) | C    | Si   | Mn   | S     | P     | Cu   |
|-------------------------------|------|------|------|-------|-------|------|
| Min                           | -    | -    | -    | -     | -     | -    |
| Max                           | 0.23 | 0.60 | 1.70 | 0.040 | 0.040 | 0.60 |

OPERATOR:



CONFIRMED:



METALLURGY LABORATORY MANAGER:

*[Signature]*



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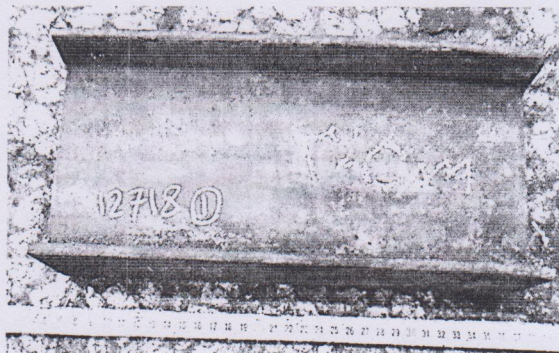


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Tracking Number: 12711/1-4007/1 Page: 4 of 7  
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Test(s) Finished at: 08.01.2022 Sampling Was done by the customer. Yes ☐ No ☒  
Revision Number: 0 Test was performed in the scope of ISO/IEC 17025 standard certification. Yes ☒ No ☐  
Number of copy: 1 Environmental conditions: temperature 23± 05 LM.F09(04)

### Name/ Specimen Specification:

- H 14



### Impact test:

Reference standard: ISO 148-1 (2016)

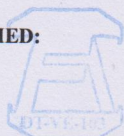
Product standard: EN 10025-2 (2019)

| Specimen ID                       | Dimensions (mm) | Notch Location | Notch Type. | Test Temperature (°C) | Impact values (J) |
|-----------------------------------|-----------------|----------------|-------------|-----------------------|-------------------|
| 1                                 | 55*5*10         | Body           | A (V Notch) | 0                     | 22.2              |
| 2                                 | 55*5*10         | Body           | A (V Notch) | 0                     | 26.0              |
| 3                                 | 55*5*10         | Body           | A (V Notch) | 0                     | 40.0              |
| Standard limit of S355J0 (1.0553) |                 |                |             |                       | Min 14            |

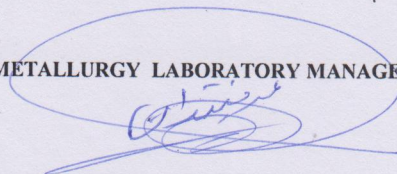
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LM.F01(00)

### Name/ Specimen Specification:

- Plate 5\*100\*200 mm



### Standard Confirmation:

Compare the results of the test are presented in the following table:

|                          |                                            |                                 |
|--------------------------|--------------------------------------------|---------------------------------|
| 1.Chemical analysis test | Accept <input checked="" type="checkbox"/> | Reject <input type="checkbox"/> |
| 2.Tensile test           | Accept <input checked="" type="checkbox"/> | Reject <input type="checkbox"/> |

According to the results of performed tests, the sample **Complies** with

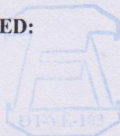
**EN 10025-2(2019)-S355J0(1.0553)**

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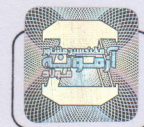
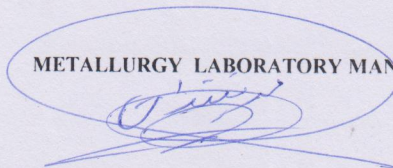
OPERATOR:



CONFIRMED:



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Environmental conditions: temperature  $23 \pm 0.5$  LM.F06(04)

### Name/ Specimen Specification:

- Plate 5\*100\*200 mm



### Tensile test

Reference standard: ISO 6892-1 (2019)

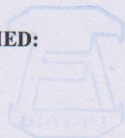
Product standard: EN 10025-2 (2019)

| Specimen ID                       | Width<br>(mm) | Thickness<br>(mm) | Gauge length<br>(mm) | Reduction of Area<br>(%) | Elongation<br>(%) | Y.P<br>Mpa | U.T.S.<br>Mpa |
|-----------------------------------|---------------|-------------------|----------------------|--------------------------|-------------------|------------|---------------|
| 2                                 | 15.91         | 5.07              | 50.15                | 22.3                     | 31.0              | 477        | 552           |
| Standard limit of S355J0 (1.0553) |               |                   |                      | -                        | Min 20            | Min 355    | 470-630       |

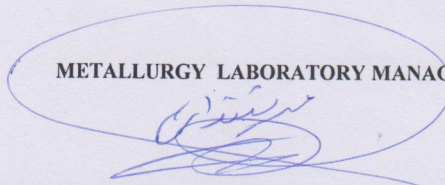
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