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Технические характеристики

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Low Hydrogen Electrode LASER B 43

Standards

| | |
|------------------|------------------|
| TS EN ISO 2560-A | : E 38 4 B 42 H5 |
| EN ISO 2560-A | : E 38 4 B 42 H5 |
| AWS A5.1 | : E 7016-1 H4 |

Chemical Composition of Weld Metal % (Typical)

| | | |
|------|-----|-----|
| C | Si | Mn |
| 0.06 | 0.5 | 0.7 |

Mechanical Properties

| Yield Strength (N/mm ²) | Tensile Strength (N/mm ²) | Impact Strength (ISO-V/-50°C) | Elongation (L ₀ =5d ₀) (%) |
|--|--|----------------------------------|--|
| min. 400 | 490-600 | min. 47 J | min. 24 |

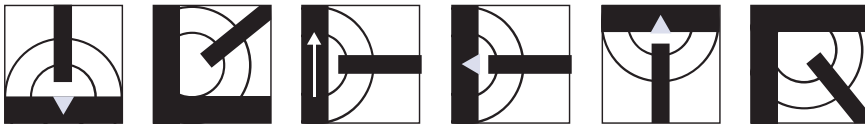
Typical Base Material Grades

- S235JR-E295, S235J2G3-S355J2G3, C22, C35, P235T1-P355T1, P235T2,P355T2, L210 -L320, L290MB-L320MB, P235G1TH, P255G1TH, P235GH,P265GH, P295GH, S235JRS1-S235J4S, S315G1S-S355G3S, S255N-S355N, P255NH-P355NH, S255NL-S355NL, GE200 - GE240
- API 5L: A, B, X42, X46, X52, X56

Features and Applications

- Suitability for use in welding at all positions except for vertical down position
- Weld metal recovery of about 110%
- Weld deposits with very low hydrogen content
- High-quality and ductile, crack-resistant weld metals, mostly forming rigid weldments with beads of large cross-sections
- D.C. (-) is recommended for the root pass
- Requirement of re-drying for minimum 2 hours at the temperatures between 300°C and 350°C

Welding Positions



Current Type

D.C. (-) for root pass / D.C. (+)

Operating Data

| Product Code | Diameter x Length (mm) / (inch) | | Welding Current (A) | Weight g / 100 pcs |
|--------------|------------------------------------|------------|------------------------|-----------------------|
| 3010100336 | 2.50 x 350 | 3/32 x 14" | 80 -110 | 2270 |
| 3010100339 | 3.20 x 350 | 1/8 x 14" | 100 - 140 | 3610 |
| 3010100342 | 4.00 x 450 | 5/32 x 18" | 130 -190 | 6760 |
| 3010100345 | 5.00 x 450 | 3/16 x 18" | 190 - 240 | 10125 |

Approvals: TSE, CE, ABS SEPRO, DNV-GL

Low Hydrogen Electrode LASER B 47

Standards

| | |
|------------------|------------------|
| TS EN ISO 2560-A | : E 42 4 B 42 H5 |
| EN ISO 2560-A | : E 42 4 B 42 H5 |
| AWS A5.1 | : E 7018 H4 |

Chemical Composition of Weld Metal % (Typical)

| | | |
|------|-----|-----|
| C | Si | Mn |
| 0.07 | 0.5 | 1.0 |

Mechanical Properties

| Yield Strength (N/mm ²) | Tensile Strength (N/mm ²) | Impact Strength (ISO-V/-40°C) | Elongation (L ₀ =5d ₀) (%) |
|--|--|----------------------------------|--|
| min. 420 | 510-600 | min. 47 J | min. 24 |

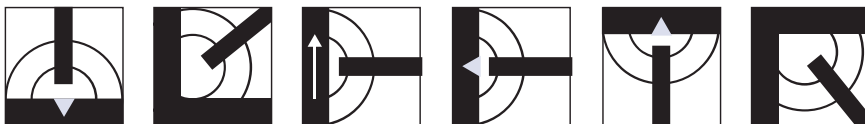
Typical Base Material Grades

- S235JR-E295, E335, S235J2G3-S355J2G3, C22, C35, P235T1-P355T1, P235T2,P355T2, L210-L360, L290MB-L360MB, P235G1TH, P255G1TH, P235GH-P295GH, S235JRS1-S235J4S, S315G1S-S355G3S, S255N-S355N, P255NH-P355NH, S255NL-S355NL, GE200-GE300
- API 5L: A, B, X42, X46, X52, X56, X60

Features and Applications

- Suitability for use in out-of-position welding except for welding at vertical down position
- Excellent strength and toughness
- Suitability for use in the fields of steel constructions, boiler, container, machine manufacturing and shipbuilding as well as for use in welding low-purity and high-carbon steels
- Suitability for the formation of welding buffer layers when building up high-carbon steels
- Weld deposits with very low hydrogen content
- Weld metal recovery of about 120%
- Requirement of re-drying for minimum 2 hours at the temperatures between 300°C and 350°C

Welding Positions



Current Type

D.C. (+)

Operating Data

| Product Code | Diameter x Length (mm) / (inch) | | Welding Current (A) | Weight g / 100 pcs |
|--------------|------------------------------------|------------|------------------------|-----------------------|
| 3010100351 | 2.50 x 350 | 3/32 x 14" | 80 - 110 | 2410 |
| 3010100354 | 3.20 x 350 | 1/8 x 14" | 100 - 140 | 3790 |
| 3010100363 | 4.00 x 450 | 5/32 x 18" | 130 - 190 | 6850 |
| 3010100369 | 5.00 x 450 | 3/16 x 18" | 190 - 240 | 10715 |

Approvals: BV, DNV-GL, TL, DB, ABS, LR, RS, RINA, NK, TSE, TÜV, SEPRO, CWB, HAKC, CE, CWB

Low Hydrogen Electrode LASER B 47-A

Standards

| | |
|------------------|------------------|
| TS EN ISO 2560-A | : E 42 4 B 32 H5 |
| EN ISO 2560-A | : E 42 4 B 32 H5 |
| AWS A5.1 | : E 7016-1 H4 |

Chemical Composition of Weld Metal % (Typical)

| | | |
|------|-----|-----|
| C | Si | Mn |
| 0.07 | 0.6 | 1.0 |

Mechanical Properties

| Yield Strength (N/mm ²) | Tensile Strength (N/mm ²) | Impact Strength (ISO-V/-46°C) | Elongation (L ₀ =5d ₀) (%) |
|--|--|----------------------------------|--|
| min. 420 | 500-610 | min. 47 J | min. 24 |

Typical Base Material Grades

- S235JR-E295, E335, S235J2G3-S355J2G3, C22, C35, P235T1-P355T1, P235T2,P355T2, L210-L360, L290MB-L320MB, P235G1TH, P255G1TH, P235GH-P295GH, S235JRS1 S235J4S, S315G1S-S355G3S, S255N-S355N, GE200-GE300
- API 5L: A, B, X42, X46, X52, X56, X60

Features and Applications

- Suitability for welding with AC power
- Suitability for use in out-of-position welding except for welding at vertical down position
- Excellent strength and toughness
- Suitability for use in the fields of steel constructions, boiler, container, machine manufacturing, and shipbuilding construction as well as for use in welding low-purity and high-carbon steels
- Suitability for the formation of welding buffer layers when building up high-carbon steels
- Weld deposits with very low hydrogen content
- Weld metal recovery of about 125%
- Requirement of re drying for minimum 2 hours at the temperatures between 300°C and 350°C

Welding Positions



Current Type

D.C. (+) / A.C.

Operating Data

| Product Code | Diameter x Length (mm) / (inch) | | Welding Current (A) | Weight g / 100 pcs |
|--------------|------------------------------------|------------|------------------------|-----------------------|
| 3010100372 | 2.50 x 350 | 3/32 x 14" | 80 -100 | 2320 |
| 3010100375 | 3.20 x 350 | 1/8 x 14" | 100-140 | 3720 |
| 3010100378 | 4.00 x 350 | 5/32 x 14" | 130 -190 | 5380 |
| 3010100381 | 4.00 x 450 | 5/32 x 18" | 130 -190 | 6820 |

Approvals: TSE, CE, ABS, SEPRO

Low Hydrogen Electrode LASER B 50

Standards

| | |
|------------------|------------------|
| TS EN ISO 2560-A | : E 42 5 B 42 H5 |
| EN ISO 2560-A | : E 42 5 B 42 H5 |
| AWS A5.1 | : E 7018 - 1 H4 |

Chemical Composition of Weld Metal % (Typical)

| | | |
|------|-----|-----|
| C | Si | Mn |
| 0.08 | 0.5 | 1.1 |

Mechanical Properties

| Yield Strength (N/mm ²) | Tensile Strength (N/mm ²) | Impact Strength (ISO-V/-50°C) | Elongation (L ₀ =5d ₀) (%) |
|--|--|----------------------------------|--|
| min. 420 | 510-630 | min. 47 J | min. 24 |

Typical Base Material Grades

- S235JR-E295, E335, S235J2G3-S355J2G3, C22, C35, P235T1-P355T1, P235T2,P355T2, L210-L360, L290MB-L360MB, P235G1TH, P255G1TH, P235GH-P355GH, S235JRS1-S235J4S, S315G1S-S355G3S, S255N-S355N, P255NH-P355NH, S255NL-S355NL, GE200-GE300
- API 5L: A, B, X42, X46, X52, X56, X60

Features and Applications

- Suitability for use in out-of-position welding except for welding at vertical down position
- Excellent strength and toughness
- Suitability for use in the fields of steel constructions, boiler, container, machine manufacturing and vertical construction as well as for use in welding low-purity and high-carbon steels
- Suitability for the formation of welding buffer layers when building up high-carbon steels
- Weld deposits with very low hydrogen content
- Weld metal recovery of about 110%
- Requirement of re-drying for minimum 2 hours at the temperatures between 300°C and 350°C

Welding Positions



Current Type

D.C.(+)

Operating Data

| Product Code | Diameter x Length (mm) / (inch) | | Welding Current (A) | Weight g / 100 pcs |
|--------------|------------------------------------|------------|------------------------|-----------------------|
| 3010100390 | 2.50 x 350 | 3/32 x 14" | 80 -100 | 2220 |
| 3010100393 | 3.20 x 350 | 1/8 x 14" | 100-140 | 3645 |
| 3010100402 | 4.00 x 450 | 5/32 x 18" | 130 -190 | 6700 |
| 3010100408 | 5.00 x 450 | 3/16 x 18" | 190/240 | 10500 |

Product Code TSE, ABS, CE, DNV-GL, SEPRO, CWB

Low Hydrogen Electrode LASER B 55

Standards

| | |
|------------------|------------------|
| TS EN ISO 2560-A | : E 46 5 B 42 H5 |
| EN ISO 2560-A | : E 46 5 B 42 H5 |
| AWS A5.1 | : E 7018 - 1 H4 |

Chemical Composition of Weld Metal % (Typical)

| | | |
|------|-----|-----|
| C | Si | Mn |
| 0.08 | 0.4 | 1.4 |

Mechanical Properties

| Yield Strength (N/mm ²) | Tensile Strength (N/mm ²) | Impact Strength (ISO-V/-50°C) | Elongation (L ₀ =5d ₀) (%) |
|--|--|----------------------------------|--|
| min. 460 | 530-650 | min. 47 J | min. 24 |

Typical Base Material Grades

- S235JR-E295, E335, S235J2G3-S355J2G3, P235T1-P355T1, P235T2,P355T2, L210NB-L415NB, L290MB-L360MB, P235G1TH, P255G1TH, P235GH-P355GH, S235JRS1-S235J4S, S315G1 S-S355G3S, S255N-S380N, P255NH-P355NH, S255NL-S460NL1, GE200-GE300
- API 5L: X42, X46, X52, X56, X60, X65

Features and Applications

- Suitability for use in out-of-position welding except for welding at vertical down position
- High ductility at low temperatures down to -50°C
- Suitability for use in welding low-purity and high-carbon steels
- Weld deposits with very low hydrogen content
- High-quality weld metals with higher strength values
- Requirement of re-drying for minimum 2 hours at the temperatures between 300°C and 350°C

Welding Positions



Current Type

D.C. (+)

Operating Data

| Product Code | Diameter x Length (mm) / (inch) | | Welding Current (A) | Weight g / 100 pcs |
|--------------|------------------------------------|------------|------------------------|-----------------------|
| 3010100411 | 2.50 x 350 | 3/32 X 14" | 80 - 100 | 2200 |
| 3010100414 | 3.20 x 350 | 1/8 X 14" | 100 - 140 | 3550 |
| 3010100417 | 4.00 x 450 | 5/32 X 18" | 130 -190 | 6570 |
| 3010100420 | 5.00 x 450 | 3/16 X 18" | 190 - 240 | 10220 |

Approvals: TSE, CE, ABS, SEPRO

Low Hydrogen Electrode LASER B 55-S

Standards

| | |
|------------------|------------------|
| TS EN ISO 2560-A | : E 46 6 B 42 H5 |
| EN ISO 2560-A | : E 46 6 B 42 H5 |
| AWS A5.1 | : E 7018 - 1 H4 |

Chemical Composition of Weld Metal % (Typical)

| C | Si | Mn |
|------|-----|-----|
| 0.08 | 0.4 | 1.4 |

Mechanical Properties*

| Yield Strength (N/mm ²) | Tensile Strength (N/mm ²) | Impact Strength (ISO-V/-60°C) | Elongation (L ₀ =5d ₀) (%) |
|--|--|----------------------------------|--|
| min. 460 | 530-650 | min. 47 J | min. 24 |

* CTOD tested

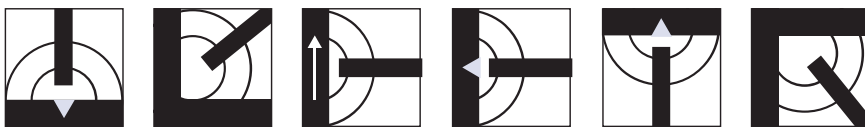
Typical Base Material Grades

- S235JR-E295, E335, S235J2G3-S355J2G3, P235T1-P355T1, P235T2,P355T2, L210NB-L415NB, L290MB-L360MB, P235G1TH, P255G1TH, P235GH-P355GH, S235JRS1-S235J4S, S315G1S-S355G3S, S255N-S380N, P255NH-P355NH, S255NL-S460NL1, GE200-GE300
- API 5L: X42, X46, X52, X56, X60, X65

Features and Applications

- Suitability for use in welding of high-strength, fine-grained steels
- High ductility at low temperatures down to -60°C
- It is used for joining thick materials safely
- Weld metal recovery of approx. 120%
- Requirement of re-drying for minimum 2 hours at the temperatures between 300°C and 350°C
- CTOD tested.

Welding Positions



Current Type

D.C.(+)

Operating Data

| Product Code | Diameter x Length (mm) / (inch) | | Welding Current (A) | Weight g / 100 pcs |
|--------------|------------------------------------|------------|------------------------|-----------------------|
| 3010100423 | 2.50 x 350 | 3/32 x 14" | 80 - 100 | 2380 |
| 3010100426 | 3.20 x 350 | 1/8 x 14" | 100 - 140 | 3740 |
| 3010100432 | 4.00 x 450 | 5/32 x 18" | 130 -190 | 7000 |

Approvals: TSE, BV, ABS, CE, SEPRO, CWB

Low Hydrogen Electrode LASER B 60

Standards

| | |
|------------------|------------------|
| TS EN ISO 2560-A | : E 42 4 B 42 H5 |
| EN ISO 2560-A | : E 42 4 B 42 H5 |
| AWS A5.1 | : E 7018 - H4 |

Chemical Composition of Weld Metal % (Typical)

| C | Si | Mn |
|------|-----|-----|
| 0.08 | 0.6 | 1.2 |

Mechanical Properties

| Yield Strength (N/mm ²) | Tensile Strength (N/mm ²) | Impact Strength (ISO-V/-40°C) | Elongation (L ₀ =5d ₀) (%) |
|--|--|----------------------------------|--|
| min. 420 | 520-630 | min. 47 J | min. 24 |

Typical Base Material Grades

- S235JR-E295, E335, S235J2G3-S355J2G3, C22, C35, P235T1-P355T1, P235T2,P355T2, L210-L360, L290MB-L360MB, P235G1TH, P255G1TH, P235GH-P355GH, S235JRS1-S235J4S, S315G1S-S355G3S, S255N-S355N, P255NH-P355NH, S255NL-S355NL, GE200-GE300
- API 5L: A, B, X42, X46, X52, X56, X60

Features and Applications

- Suitability for use in out-of-position welding except for welding at vertical down position
- Excellent strength and toughness
- Suitability for use in the fields of steel constructions, boiler, container, machine manufacturing and shipbuilding as well as for use in welding low purity and high-carbon steels
- The pressure vessels used in the production
- Suitability for the formation of welding buffer layers when building up high-carbon steels
- Weld deposits with very low hydrogen content
- Requirement of re-drying for minimum 2 hours at the temperatures between 300°C and 350°C

Welding Positions



Current Type

D.C. (+)

Operating Data

| Product Code | Diameter x Length (mm) / (inch) | | Welding Current (A) | Weight g / 100 pcs |
|--------------|------------------------------------|------------|------------------------|-----------------------|
| 3010100438 | 2.5 x 350 | 3/32 x 14" | 60 - 90 | 2300 |
| 3010100441 | 3.2 x 350 | 1/8 x 14" | 100 - 140 | 3700 |
| 3010100447 | 4.0 x 450 | 5/32 x 18" | 150 - 210 | 6800 |
| 3010100450 | 5.0 x 450 | 3/16 x 18" | 200 - 260 | 10200 |

Approvals: TSE, CE, SEPRO

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