

# VERIFICATION STATEMENT

**This is to verify:****That the Electrode**with trade name  
**EI 309L**

Distributed by

**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Sefakoy-Istanbul, Turkey**is found to comply with  
**DNV GL rules for classification – Ships**

with this approval

<b>Grade</b>	<b>4332</b>
<b>Current</b>	<b>DC +</b>
<b>Approved diameter</b>	<b>2,5 - 5,0mm</b>
<b>Positions</b>	<b>All, except vertical-down</b>
<b>Remarks</b>	<b>Impact test at -20° C &gt; 34 J</b>

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Statement is valid until **2021-02-24**.Issued at **Hamburg** on **2016-02-25**DNV GL local station: **Istanbul**Approval Engineer: **Dietmar Liebich**for **DNV GL**-----  
**Thorsten Lohmann**  
**Head of Section**

This Verification Statement is valid provided the manufacturers approval is maintained.

# VERIFICATION STATEMENT

**This is to verify:****That the Electrode**

with trade name  
**EI 316L**

Distributed by  
**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Sefakoy-Istanbul, Turkey**

is found to comply with  
**DNV GL rules for classification – Ships**

with this approval

<b>Grade</b>	<b>4435</b>
<b>Current</b>	<b>DC +</b>
<b>Approved diameter</b>	<b>2,5 - 5,0mm</b>
<b>Positions</b>	<b>All, except vertical-down</b>
<b>Remarks</b>	<b>Impact test at -20° C &gt; 47J</b>

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

This Statement is valid until **2021-02-24**.

Issued at **Hamburg** on **2016-02-25**

DNV GL local station: **Istanbul**

Approval Engineer: **Dietmar Liebich**

for **DNV GL**

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**Thorsten Lohmann**  
**Head of Section**

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This Verification Statement is valid provided the manufacturers approval is maintained.

# VERIFICATION STATEMENT

**This is to verify:****That the Electrode**

with trade name  
**MAGMAWELD ESB-44**

Distributed by  
**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Manisa, Turkey**

is found to comply with  
**DNV GL rules for classification – Ships**  
**DNV GL class programme DNVGL-CP-0069 – Type approval – Welding consumables**

with this approval

<b>Grade</b>	<b>3 YH10</b>
<b>Current</b>	<b>DC(+)</b>
<b>Approved diameter</b>	<b>2.0 mm - 5.0 mm</b>
<b>Positions</b>	<b>All, except vertical downwards</b>
<b>Remarks</b>	

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

Issued at **Hamburg** on **2018-07-31**  
This Statement is valid until **2021-12-31**.  
DNV GL local station: **Istanbul**

for **DNV GL**

Approval Engineer: **Ludger Hachmöller**

.....  
**Thorsten Lohmann**  
**Head of Section**

This Verification Statement is valid provided the manufacturers approval is maintained.



# VERIFICATION STATEMENT

**This is to verify:****That the Electrode**

with trade name  
**MAGMAWELD ESB-48**

Distributed by  
**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Manisa, Turkey**

is found to comply with  
**DNV GL rules for classification – Ships**  
**DNV GL class programme DNVGL-CP-0069 – Type approval – Welding consumables**

with this approval

<b>Grade</b>	<b>3 YH10</b>
<b>Current</b>	<b>DC(+)</b>
<b>Approved diameter</b>	<b>2.5 mm - 5.0 mm</b>
<b>Positions</b>	<b>All, except vertical downwards</b>
<b>Remarks</b>	

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

Issued at **Hamburg** on **2018-07-31**  
This Statement is valid until **2021-12-31**.  
DNV GL local station: **Istanbul**

for **DNV GL**

Approval Engineer: **Ludger Hachmöller**

.....  
**Thorsten Lohmann**  
**Head of Section**

This Verification Statement is valid provided the manufacturers approval is maintained.



# VERIFICATION STATEMENT

**This is to verify:****That the Electrode**

with trade name  
**MAGMAWELD ESB-50**

Distributed by  
**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Manisa, Turkey**

is found to comply with  
**DNV GL rules for classification – Ships**  
**DNV GL class programme DNVGL-CP-0069 – Type approval – Welding consumables**

with this approval

<b>Grade</b>	<b>3 Y</b>
<b>Current</b>	<b>DC(+), AC</b>
<b>Approved diameter</b>	<b>2.0 mm - 5.0 mm</b>
<b>Positions</b>	<b>All, except vertical downwards</b>
<b>Remarks</b>	

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

Issued at **Hamburg** on **2018-07-31**  
This Statement is valid until **2021-12-31**.  
DNV GL local station: **Istanbul**

for **DNV GL**

Approval Engineer: **Ludger Hachmöller**

.....  
**Thorsten Lohmann**  
**Head of Section**

This Verification Statement is valid provided the manufacturers approval is maintained.



**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Electrode**with trade name  
**MAGMAWELD ESB 52**

Manufacturer

**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Sefakoy-Istanbul, Turkey**is found to comply with  
**DNV GL rules for classification – Ships**

with this approval

<b>Grade</b>	<b>3 YH5</b>
<b>Current</b>	<b>AC, DC ±</b>
<b>Approved diameter</b>	<b>2,5 - 5,0mm</b>
<b>Positions</b>	<b>All, including vertical-down</b>
<b>Remarks</b>	<b>---</b>

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2021-02-24**.Issued at **Hamburg** on **2016-02-25**DNV GL local station: **Istanbul**Approval Engineer: **Dietmar Liebich**for **DNV GL**-----  
**Thorsten Lohmann**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.

**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Electrode**with trade name  
**EXTRACITO**

Manufacturer

**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Manisa, Turkey**

is found to comply with

**DNV GL rules for classification – Ships****DNV GL class programme DNVGL-CP-0069 – Type approval – Welding consumables**

with this approval

<b>Grade</b>	<b>3 YH10</b>
<b>Current</b>	<b>DC(+)</b>
<b>Approved diameter</b>	<b>2.5 mm - 5.0 mm</b>
<b>Positions</b>	<b>All, except vertical downwards</b>
<b>Remarks</b>	

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Hamburg** on **2018-07-31**This Certificate is valid until **2021-12-31**.DNV GL local station: **Istanbul**Approval Engineer: **Ludger Hachmöller**for **DNV GL**

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**Thorsten Lohmann**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.



**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Flux Cored Wire/Gas combination**

with trade name

**Magmaweld FCW 11 / C1**

Manufacturer

**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.  
Sefakoy-Istanbul, Turkey**

is found to comply with

**DNV GL rules for classification – Ships**

with this approval

<b>Grade</b>	<b>III YH5S</b>
<b>Current</b>	<b>DC +</b>
<b>Approved diameter</b>	<b>1,2 - 1,6mm</b>
<b>Positions</b>	<b>All, including vertical-down</b>
<b>Remarks</b>	<b>---</b>

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2021-02-24**.Issued at **Hamburg** on **2016-02-25**DNV GL local station: **Istanbul**Approval Engineer: **Dietmar Liebich**for **DNV GL**

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**Thorsten Lohmann**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.



**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Flux Cored Wire/Gas combination**

with trade name

**Magmaweld FCW 12 / M21**

Manufacturer

**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.  
Sefakoy-Istanbul, Turkey**

is found to comply with

**DNV GL rules for classification – Ships**

with this approval

<b>Grade</b>	<b>III YH5S</b>
<b>Current</b>	<b>DC +</b>
<b>Approved diameter</b>	<b>1,2 - 1,6mm</b>
<b>Positions</b>	<b>All, including vertical-down</b>
<b>Remarks</b>	<b>---</b>

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

This Certificate is valid until .

Issued at **Hamburg** onDNV GL local station: **Istanbul**Approval Engineer: **Dietmar Liebich**for **DNV GL**-----  
**Thorsten Lohmann**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.

**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Flux Cored Wire/Gas combination**with trade name  
**Magmaweld FCW 16 / C1**Manufacturer  
**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Sefakoy-Istanbul, Turkey**is found to comply with  
**DNV GL rules for classification – Ships**

with this approval

<b>Grade</b>	<b>III YS</b>
<b>Current</b>	<b>DC +</b>
<b>Approved diameter</b>	<b>1,2 - 1,6mm</b>
<b>Positions</b>	<b>All, including vertical-down</b>
<b>Remarks</b>	<b>---</b>

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2021-02-24**.Issued at **Hamburg** on **2016-02-25**DNV GL local station: **Istanbul**Approval Engineer: **Dietmar Liebich**for **DNV GL**-----  
**Thorsten Lohmann**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.

# TYPE APPROVAL CERTIFICATE

**This is to certify:**

**That the Flux Cored Wire/Gas combination**

with trade name  
**FCW 21 / M21**

Manufacturer

**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Sefakoy-Istanbul, Turkey**

is found to comply with  
**DNV GL rules for classification – Ships**

with this approval

<b>Grade</b>	<b>III YMS H5</b>
<b>Current</b>	<b>DC +</b>
<b>Approved diameter</b>	<b>1,0 - 1,6mm</b>
<b>Positions</b>	<b>All including vertical downwards</b>
<b>Remarks</b>	<b>---</b>

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

This Certificate is valid until **2021-12-11**.

Issued at **Hamburg** on **2016-12-12**

DNV GL local station: **Istanbul**

Approval Engineer: **Dietmar Liebich**

for **DNV GL**

.....  
**Thorsten Lohmann**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.

**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Electrode**with trade name  
**INOX 309L**

Manufacturer

**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Sefakoy-istanbul, Turkey**is found to comply with  
**DNV GL rules for classification – Ships**

with this approval

<b>Grade</b>	<b>4332</b>
<b>Current</b>	<b>DC +</b>
<b>Approved diameter</b>	<b>2,5 - 5,0mm</b>
<b>Positions</b>	<b>All, except vertical-down</b>
<b>Remarks</b>	<b>Impact test at -20° C &gt; 34J</b>

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2021-02-24**.Issued at **Hamburg** on **2016-02-25**DNV GL local station: **Istanbul**Approval Engineer: **Dietmar Liebich**for **DNV GL**-----  
**Thorsten Lohmann**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.

**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Electrode**

with trade name  
**INOX-BWL**

Manufacturer

**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Sefakoy-Istanbul, Turkey**

is found to comply with  
**DNV GL rules for classification – Ships**

with this approval

<b>Grade</b>	<b>4435</b>
<b>Current</b>	<b>DC +</b>
<b>Approved diameter</b>	<b>2,5 - 5,0mm</b>
<b>Positions</b>	<b>All, except vertical-down</b>
<b>Remarks</b>	<b>---</b>

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

This Certificate is valid until **2021-02-24**.

Issued at **Hamburg** on **2016-02-25**

DNV GL local station: **Istanbul**

Approval Engineer: **Dietmar Liebich**

for **DNV GL**

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**Thorsten Lohmann**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.

# VERIFICATION STATEMENT

**This is to verify:****That the Wire/Gas combination**

with trade name

**MAGMAWELD MG-2 / C1**

Distributed by

**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.  
Sefakoy-Istanbul, Turkey**

is found to comply with

**DNV GL rules for classification – Ships**

with this approval

<b>Grade</b>	<b>III YMS</b>
<b>Current</b>	<b>DC +</b>
<b>Approved diameter</b>	<b>1,2 -1,6mm</b>
<b>Positions</b>	<b>PA, PC, PE (1G, 2G, 4G)</b>
<b>Remarks</b>	<b>For Gas metal arc welding (GMAW)</b>

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Statement is valid until **2021-02-24**.Issued at **Hamburg** on **2016-02-25**DNV GL local station: **Istanbul**Approval Engineer: **Dietmar Liebich**for **DNV GL**

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**Thorsten Lohmann**  
**Head of Section**

This Verification Statement is valid provided the manufacturers approval is maintained.

# VERIFICATION STATEMENT

**This is to verify:****That the Wire/Gas combination**

with trade name

**MAGMAWELD MG-2 / M21**

Distributed by

**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.  
Sefakoy-Istanbul, Turkey**

is found to comply with

**DNV GL rules for classification – Ships**

with this approval

<b>Grade</b>	<b>III YMS</b>
<b>Current</b>	<b>DC +</b>
<b>Approved diameter</b>	<b>1,2 - 1,6mm</b>
<b>Positions</b>	<b>PA, PC, PE (1G, 2G, 4G)</b>
<b>Remarks</b>	<b>For Gas metal arc welding (GMAW)</b>

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Statement is valid until **2021-02-24**.Issued at **Hamburg** on **2016-02-25**DNV GL local station: **Istanbul**Approval Engineer: **Dietmar Liebich**for **DNV GL**

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**Thorsten Lohmann**  
**Head of Section**

This Verification Statement is valid provided the manufacturers approval is maintained.

**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Wire/Flux combination**with trade name  
**SF 104 / SW702**

Manufacturer

**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Manisa, Turkey**

is found to comply with

**DNV GL rules for classification – Ships****DNV GL class programme DNVGL-CP-0069 – Type approval – Welding consumables**

with this approval

<b>Grade</b>	<b>III YM</b>
<b>Current</b>	<b>DC(+)</b>
<b>Approved diameter</b>	<b>up to 4.0 mm</b>
<b>Positions</b>	<b>Flat</b>
<b>Remarks</b>	

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Hamburg** on **2018-07-31**This Certificate is valid until **2022-12-31**.DNV GL local station: **Istanbul**Approval Engineer: **Ludger Hachmöller**for **DNV GL**.....  
**Thorsten Lohmann**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.





**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Wire/Gas combination**with trade name  
**SG.2 / C1**

Manufacturer

**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Sefakoy-istanbul, Turkey**is found to comply with  
**DNV GL rules for classification – Ships**

with this approval

<b>Grade</b>	<b>III YMS</b>
<b>Current</b>	<b>DC +</b>
<b>Approved diameter</b>	<b>1,2 and 1,6mm</b>
<b>Positions</b>	<b>PA , PC, PF (1G, 2G, 4G)</b>
<b>Remarks</b>	<b>For Gas metal arc welding (GMAW)</b>

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2021-02-24**.Issued at **Hamburg** on **2016-02-25**DNV GL local station: **Istanbul**Approval Engineer: **Dietmar Liebich**for **DNV GL**-----  
**Thorsten Lohmann**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.

**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Wire/Gas combination**with trade name  
**SG.2 / M21**

Manufacturer

**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Sefakoy-istanbul, Turkey**is found to comply with  
**DNV GL rules for classification – Ships**

with this approval

<b>Grade</b>	<b>III YMS</b>
<b>Current</b>	<b>DC +</b>
<b>Approved diameter</b>	<b>1,2 -1,6mm</b>
<b>Positions</b>	<b>PA, PC, PE ( 1G, 2G, 4G)</b>
<b>Remarks</b>	<b>For Gas metal arc welding (GMAW)</b>

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2021-02-24**.Issued at **Hamburg** on **2016-02-25**DNV GL local station: **Istanbul**Approval Engineer: **Dietmar Liebich**for **DNV GL**-----  
**Thorsten Lohmann**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.

**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Electrode**with trade name  
**SPEZIAL**

Manufacturer

**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Manisa, Turkey**

is found to comply with

**DNV GL rules for classification – Ships****DNV GL class programme DNVGL-CP-0069 – Type approval – Welding consumables**

with this approval

<b>Grade</b>	<b>3 YH10</b>
<b>Current</b>	<b>DC(+)</b>
<b>Approved diameter</b>	<b>2.0 mm - 5.0 mm</b>
<b>Positions</b>	<b>All, except vertical downwards</b>
<b>Remarks</b>	

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Hamburg** on **2018-07-31**This Certificate is valid until **2021-12-31**.DNV GL local station: **Istanbul**Approval Engineer: **Ludger Hachmöller**for **DNV GL**

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**Thorsten Lohmann**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.



**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Electrode**with trade name  
**SUPERCITO**

Manufacturer

**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Manisa, Turkey**

is found to comply with

**DNV GL rules for classification – Ships****DNV GL class programme DNVGL-CP-0069 – Type approval – Welding consumables**

with this approval

<b>Grade</b>	<b>3 Y</b>
<b>Current</b>	<b>DC(+), AC</b>
<b>Approved diameter</b>	<b>2.0 mm - 5.0mm</b>
<b>Positions</b>	<b>All, except vertical downwards</b>
<b>Remarks</b>	

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Hamburg** on **2018-07-31**This Certificate is valid until **2021-12-31**.DNV GL local station: **Istanbul**Approval Engineer: **Ludger Hachmöller**for **DNV GL**.....  
**Thorsten Lohmann**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.



**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Wire/Gas combination**

with trade name  
**TG-2 / I1**

Manufacturer

**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Manisa, Turkey**

is found to comply with

**DNV GL rules for classification – Ships**

**DNV GL class programme DNVGL-CP-0069 – Type approval – Welding consumables**

with this approval

<b>Grade</b>	<b>III YMS</b>
<b>Current</b>	<b>DC(-)</b>
<b>Approved diameter</b>	<b>1.2 mm - 4.0 mm</b>
<b>Positions</b>	<b>All, including vertical downwards</b>
<b>Remarks</b>	<b>For GTAW</b>

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

Issued at **Hamburg** on **2018-07-31**

This Certificate is valid until **2022-12-31**.

DNV GL local station: **Istanbul**

Approval Engineer: **Ludger Hachmöller**

for **DNV GL**

.....  
**Thorsten Lohmann**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.



**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Wire/Gas combination**with trade name  
**Magmaweld TI 309L**Manufacturer  
**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Sefakoy-Istanbul, Turkey**is found to comply with  
**DNV GL rules for classification – Ships**

with this approval

<b>Grade</b>	<b>4332</b>
<b>Current</b>	<b>DC -</b>
<b>Approved diameter</b>	<b>1,6 - 2,4mm</b>
<b>Positions</b>	<b>All, including vertical-down</b>
<b>Remarks</b>	<b>Impact test at -20° C &gt; 47J</b>

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2021-02-24**.Issued at **Hamburg** on **2016-02-25**DNV GL local station: **Istanbul**Approval Engineer: **Dietmar Liebich**for **DNV GL**-----  
**Thorsten Lohmann**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.

**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Wire/Gas combination**with trade name  
**Magmaweld TI 316L**Manufacturer  
**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Sefakoy-Istanbul, Turkey**is found to comply with  
**DNV GL rules for classification – Ships**

with this approval

<b>Grade</b>	<b>4435</b>
<b>Current</b>	<b>DC -</b>
<b>Approved diameter</b>	<b>1,2 - 3,2</b>
<b>Positions</b>	<b>All, including vertical-down</b>
<b>Remarks</b>	<b>---</b>

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2021-02-24**.Issued at **Hamburg** on **2016-02-25**DNV GL local station: **Istanbul**Approval Engineer: **Dietmar Liebich**for **DNV GL**-----  
**Thorsten Lohmann**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.

**TYPE APPROVAL CERTIFICATE**

**This is to certify:**

**That the Wire/Gas combination**

with trade name  
**Magmaweld MG3 / M21**

Manufacturer  
**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**Manisa, Turkey**

is found to comply with  
**DNV GL rules for classification – Ships**  
**DNV GL class programme DNVGL-CP-0069 – Type approval – Welding consumables**

with this approval

<b>Grade</b>	<b>III YMS</b>
<b>Current</b>	<b>DC(+)</b>
<b>Approved diameter</b>	<b>0.8 mm - 1.6 mm</b>
<b>Positions</b>	<b>All, including vertical-down</b>
<b>Remarks</b>	<b>For Gas metal arc welding (GMAW)</b>

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

Issued at **Hamburg** on **2020-03-30**

This Certificate is valid until **2021-02-24**.  
 DNV GL local station: **Istanbul**

Approval Engineer: **Hans-Joachim Vogt**



for **DNV GL**  
 Digitally Signed By: Hachmoeller, Ludger  
 Location: DNV GL Hamburg, Germany  
 Signing Date: 2020-03-30 , on behalf of

**Thorsten Lohmann**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.

