



# TYPE APPROVAL CERTIFICATE

Certificate no.:  
**TAW0000405**  
Revision No:  
**1**

## This is to certify:

that the Flux Cored Wire/Gas combination

with trade name  
**Cryo-Shield 316L / C1**

Manufacturer  
**ESAB Seah Corp.**  
Changwon-si, Gyeongsangnam-do, Republic of Korea

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

with this approval

<b>Grade</b>	<b>NV 316L</b>
<b>Current</b>	<b>DC(+)</b>
<b>Approved diameter</b>	<b>1.0 mm - 1.2 mm</b>
<b>Positions</b>	<b>All, except vertical downwards.</b>
<b>Remarks</b>	<b>Impact test at -196° average value <math>\geq</math> 34 Joule</b>

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

Issued at **Hamburg** on **2023-11-14**

for **DNV**

This Certificate is valid until **2028-10-08**.

DNV local unit: **Gimhae Station**

Approval Engineer: **Dietmar Liebich**

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