

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Wire/Gas combination**with trade name  
**MGC-316L / M13**Manufacturer  
**CHOSUN WELDING CO., LTD.**  
**ULSAN, Republic of Korea**is found to comply with  
**DNV GL class programme DNVGL-CP-0069 – Type approval – Welding consumables**  
**DNV GL rules for classification – Ships**

with this approval

<b>Grade</b>	<b>VL 316 L</b>
<b>Current</b>	<b>DC(+)</b>
<b>Approved diameter</b>	<b>0.9 mm - 1.6 mm</b>
<b>Positions</b>	<b>All, except vertical downwards</b>
<b>Remarks</b>	<b>Impact test at -196°C. Also for fillet welding.</b>

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Hamburg** on **2017-10-18**This Certificate is valid until **2022-06-30**.DNV GL local station: **Ulsan**Approval Engineer: **Dietmar Liebich**for **DNV GL**Digitally Signed By: Hachmoeller, Ludger  
Location: DNV GL Hamburg, Germany  
Signing Date: 2017-10-20 , on behalf of**Thorsten Lohmann**  
**Head of Section**

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

