

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Wire/Flux combination

with trade name

FAMILIARC US-36 / FAMILIARC MF-300 / FAMILIARC RF-1

Manufacturer

**Kobe Steel Ltd., Fukuchiyama Plant
Fukuchiyama Kyoto Pref, Japan**

is found to comply with

DNV GL rules for classification – Ships

with this approval

Grade	I Y
Current	AC
Approved diameter	3.2 - 4.8mm
Positions	PA (1G)
Remarks	SAW-one-side welding on backing flux (FAMILIARC RF-1) welded in single run. Max. thickness 12 mm

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

This Certificate is valid until **2021-04-30**.

Issued at **Hamburg** on **2016-09-01**

DNV GL local station: **Kobe**

Approval Engineer: **Hans-Joachim Vogt**

for **DNV GL**

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**Thorsten Lohmann
Head of Section**

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