

TYPE APPROVAL CERTIFICATE

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

with trade name
NSSW EX-50F

Manufacturer

Nippon Steel & Sumikin Welding Co., Ltd. Hikari Plant
Hikari Yamaguchi Pref., Japan

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

with this approval

Grade	2
Current	AC/DC(+)
Approved diameter	3.2 mm - 6.4 mm
Positions	Flat and Horizontal
Remarks	For gravity fillet welding of TMCP-steels with max. Ceq. 0.36%, steel grade NV D32 and equivalent. $t \leq 25$ mm

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

This Certificate is valid until **2020-12-31**.

Issued at **Høvik** on **2015-11-30**

DNV GL local station: **Hiroshima**

Approval Engineer: **Maxim Bobrov**

for **DNV GL**

Hanne Anita Hjerpetjønn
Head of Section

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