

DNV

DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. W-19917
This Certificate consists of 2 pages

This is to certify that the
Wire/Flux combination

with trade name
CHW-S12/CHF101

Manufactured by
Atlantic China Welding Consum. Inc.
ZIGONG 643010, China

is found to comply with
DET NORSKE VERITAS' RULES FOR CLASSIFICATION PT.2

with this approval

Grade	III YM
Current	AC/DC(+)
Positions	Flat

Place and date
Høvik, 2007-10-18
for DET NORSKE VERITAS AS

Hanne Anita Hjerpetjonn

Hanne Anita Hjerpetjonn
Head of Section



Local Office
DNV Wuhan Office

This Certificate is valid until
2011-12-31

Geir Næss

Geir Næss
Surveyor

This Certificate is subject to terms and conditions overleaf. Any significant change in production or chemical composition may render this Certificate invalid.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

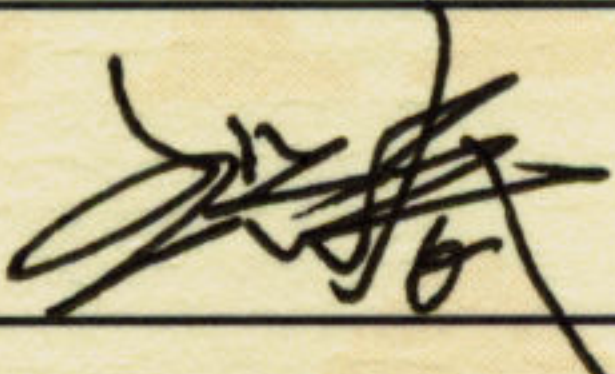



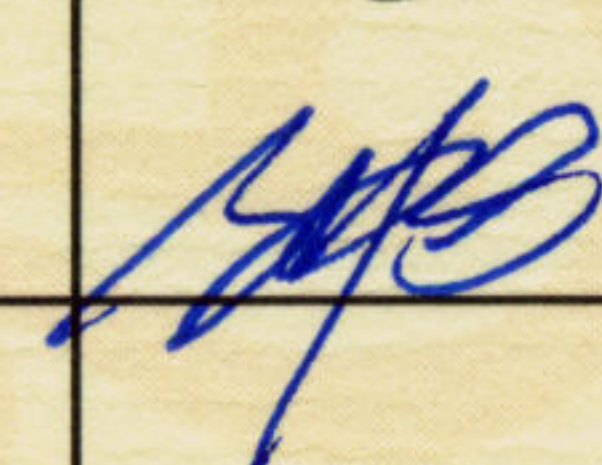



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Certificate Retention Survey

Surveys for retention of the certificate are to be carried out annually to verify compliance with rule requirements and that the conditions for Type Approval are not altered during the validity period of the certificate.

Annual inspection and testing carried out:

Date	DNV surveyor's sign.
2008-06-19	 
2009-06-18	 
2010-04-10	 

END OF CERTIFICATE