



# DET NORSKE VERITAS

## TYPE APPROVAL CERTIFICATE

**CERTIFICATE NO. W-19165**  
This Certificate consists of 2 pages

*This is to certify that the*  
**Electrode**

*with trade name*  
**CHE501Fe18**

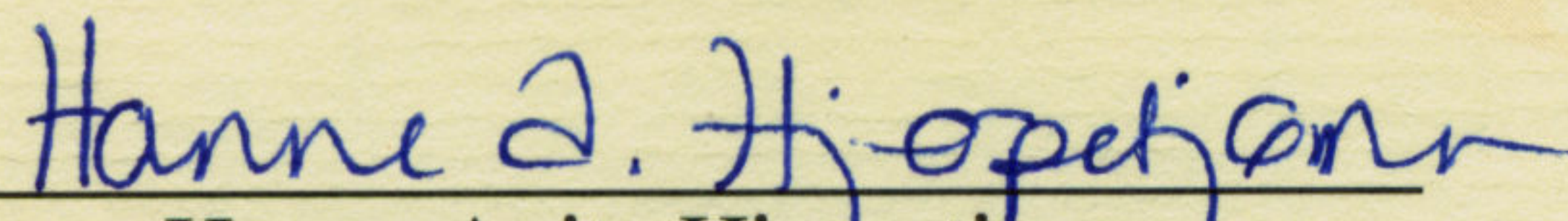
*Manufactured by*  
**Atlantic China Welding Consum. Inc.**  
Zigong, Sichuan 643010, China


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

*with this approval*

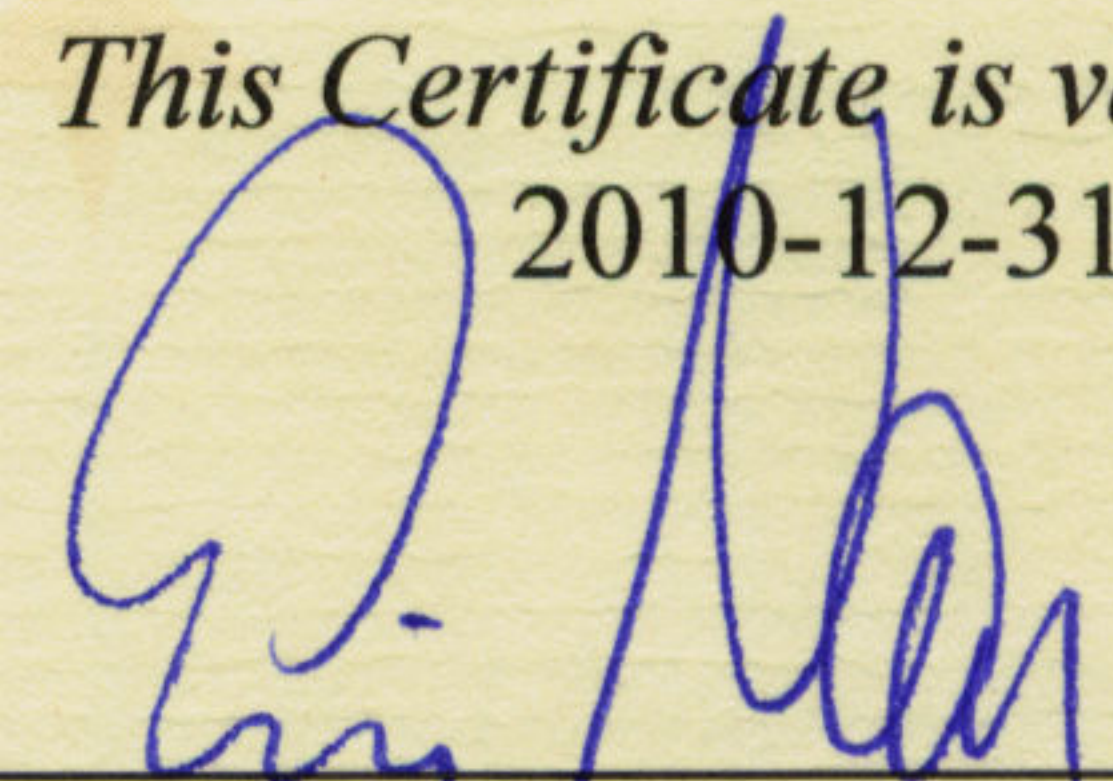
Grade	2
Current	AC
Positions	Flat
Remarks	Also for fillet welding

*Place and date*  
Høvik, 2006-07-30  
for DET NORSKE VERITAS AS

  
Hanne Anita Hjerpetjønn  
Head of Section

  
*Local Office*  
DNV Wuhan Office

*This Certificate is valid until*  
2010-12-31

  
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.

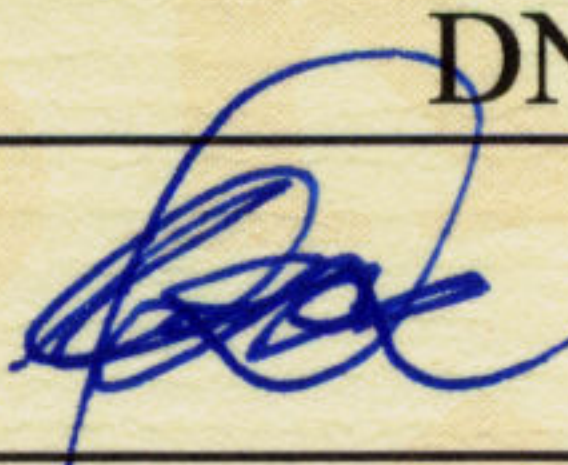

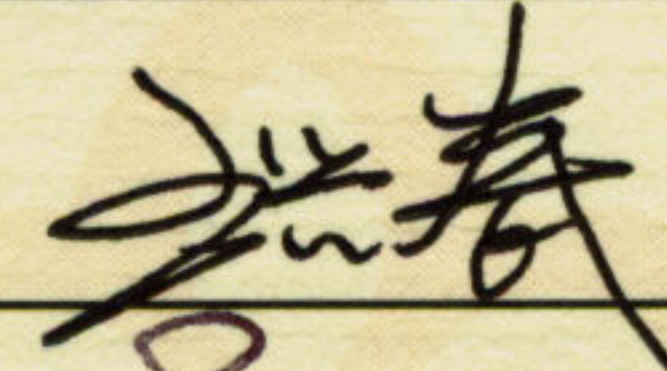



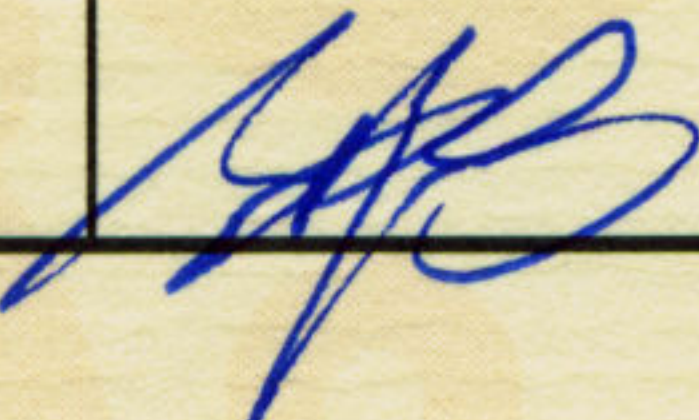



Certificate No. W-19165

### 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.
2007-06-14	 
2008-06-19	 
2009-06-18	 
2010-04-17	 

END OF CERTIFICATE