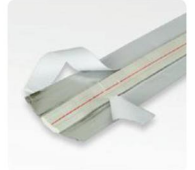




# Company Presentation for BAE Systems Norfolk



Perfect Welding by



## BAE Systems as important NST customer in Europe

- BAE shipyards: Scotland and England
- User of NST welding wires since 1993 (26 years)
- Consumed over 6 million lbs.
- Work: Aircraft carriers, submarines and other navy vessels
- NST welding wires: SF-1A and SF-50A



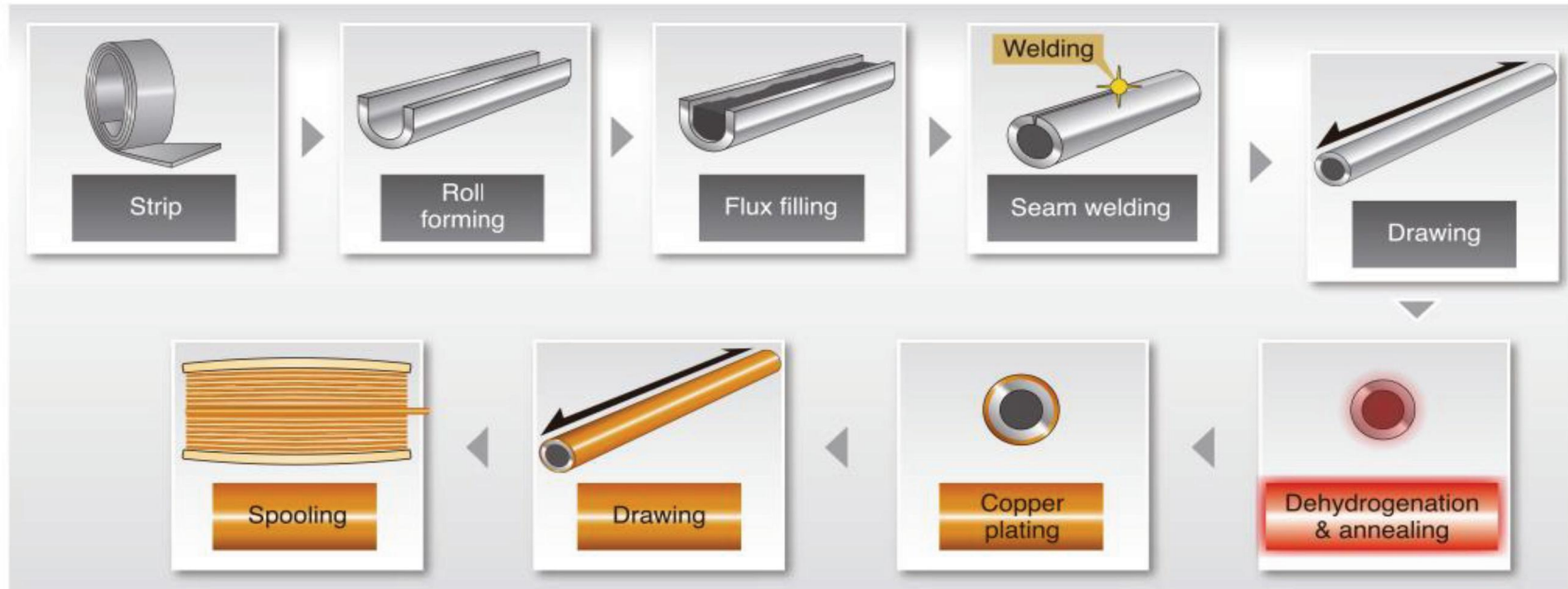
## Nippon Steel Seamless Cored Wires

- Excellent weldability
- Appreciated by welders worldwide
- No moisture pick up
- Ultra low hydrogen process
- Consistent quality
- Deep penetration
- Less welding defects
- Optimal feeding characteristics
- Copper coating and perfect roundness
- Rust prevention
- Perfect current transfer in contact tip
- Less wear on contact tip
- Exact target performance
- Perfect suitability for automated and robotic applications
- Easy storage and handling procedures

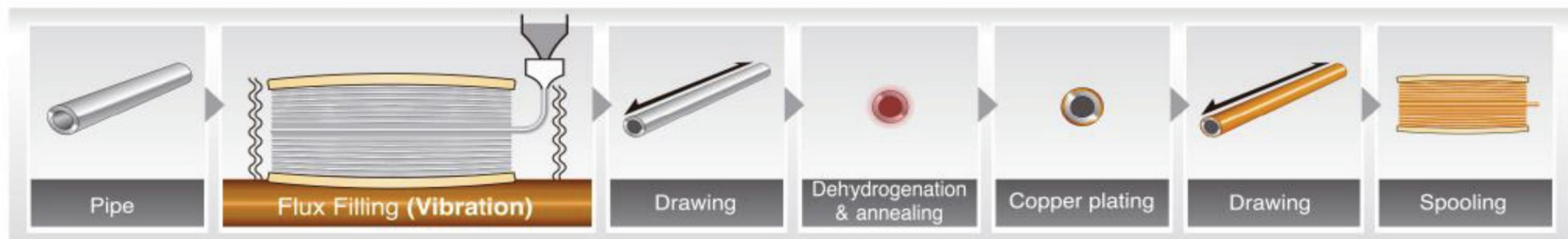


## Production Process of Nippon Steel Seamless Cored Wires

a) NSSW's SF wire filled with flux homogeneously



b) Other Seamless FC wire filled with flux by vibration from top to bottom.





## **Nippon Steel SF-1A    equivalent to E71T-1M MIL 71T-1M**

- General purpose rutile seamless flux cored wire for shipbuilding
- Designed for mixed gas (typ. 80/20 and 75/25)
- Impact test temperature: -20°C (-4°F)
- Suitable for all welding positions in manual and automated welding
- Excellent weldability including welding on ceramic backing
- Premium and consistent quality
- Approvals: DNV-GL, LR, BV, ABS, CWB, PRS, RINA, CE



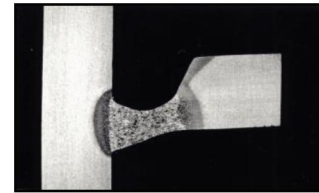
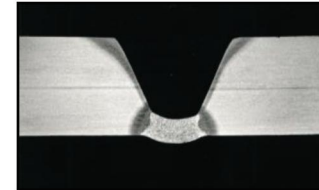
## **Nippon Steel SF-50A equivalent to E91T1-GM MIL-101TM**

- Seamless flux cored wire for high tensile steels and high requirement applications
- Designed for mixed gas (typ. 80/20 and 75/25)
- Impact test temperature: -50°C (-60°F)
- Suitable for all welding positions in manual and automated welding
- Excellent weldability including welding on ceramic backing
- Premium and consistent quality
- Approvals: DNV-GL, LR, ABS, CE



## NST Ceramic Backing

- Ceramic backing for single sided welding
- Premium quality
- Non-hygroscopic = No moisture pick up
- No need for back gouging
- Red centerline made with automation
- Wide range of various types and designs for different applications
- Can be customized to customers' need



## References

We have activities in 30 countries and some of our references are:

- BAE Systems, UK
- Philly Shipyard, United States
- General Dynamics NASSCO
- Halifax Shipyard, Canada
- Seaspan Vancouver Shipyards, Canada
- STX, France and Norway
- Meyer Turku, Finland
- Bladt Industries, Denmark
- BUS, The Netherlands
- Aker Solutions, Norway
- Kværner Group, Norway
- Kleven Maritime, Norway
- Ulstein Group, Norway
- IWS Welding Group, UK
- Lamprell Group, Dubai
- McDermott, Dubai and Indonesia
- SMOE, Singapore

# Perfect welding





Thank you for your time!

