CuNiFe
Corrosion resistant connectors for seawater systems

Seawater systems impose special requirements for the connectors used. CuNiFe products, long-term, show a considerably higher durability than other materials.

The CuNiFe programme from Parker offers a special corrosion resistant solution.

- Leakfree, soft sealed connection
- Seawater resistant material
- Easy and safe assembly
- With reliable EO-2 stainless steel functional nut

Standards and Approvals:
- ISO 8434
- DIN 2353
- Germanischer Lloyd
  - Approved for light and heavy series
  - Nominal pressure: 100 bar
  - Tube O.D.: 65-365, 6L-42L
  - Temperature range: -25°C to +200°C
- Specified at major shipyards for various application areas

Technical concept:
- Special axially metameric sealed 24° fitting
- Bodies are in Copper-Nickel-Iron Alloys (CuNiFe)
- EO-2 functional nuts and sealed nuts are in stainless steel 1.4571 (alternatively, weld fittings are available)
- CuNiFe10V-M (2.1972.11)
- FKM soft sealing
- This also includes an S 3.1 B certificate on request

Material specification:
- The copper alloy programme is made from CuNi10Fe1,6Mn (2.1972.11)
- All products of this range are specified to ISO 1629 with FKM (Viton) sealing
- Fittings and nuts in CuNiFe as well as stainless steel are specially marked to support customers with certifications on request for the full heat code traceability information to DIN 50049 (similar to DIN 50049)
- The successful Parker assembly principle: easy, fast, safe and dry
- EO-2 functional nuts: low torque tightening through silver plated threads in nuts, consistently good assembly results

Protected quality:
- CuNiFe fittings are protected and identified right up to the point of use
- Fittings are carefully packed and printed with the part numbers
- This ensures security against damage, contamination and easy identification

Assembly:
- The successful Parker assembly principle: easy, fast, safe and dry
- Benefits of the functional nuts: low torque tightening through silver plated threads in nuts, consistently good assembly results

Programme variety:
- Use the Parker Tube Fittings range
- The wide and well known, worldwide product range of Parker Etmeto gives you a lot of possibilities
  - ISO 8434-1 DIN-Connectors (incl. EO-2)
  - ISO 8434-2 Triple-Lok®
  - ISO 8434-3 O-Lok®
  - ISO 8434-4 Weld fittings
- This also includes an 3.1 B certificate on request

Sample from the CuNiFe product programme:
- G, GE, GA, H, T and SV fittings with functional nutlock nuts in stainless steel
- DIN ET, EL, ESE and FS-New adjustable with wire locked nuts in stainless steel
- ESN – weld bulkhead fitting with functional nuts in stainless steel material
- SKA, SKO, SKO-RB, SKOCR, SKOR fittings, also available for orbital welding
- Light and heavy series

EO2-FORM F3 WorkCenter
- All tools in one machine
- Easily transportable and ready for operation at once
- Cold-forming of hydraulic tube-ends
- Electrostatically sealed high pressure tube connection using EO-2 seal element
- Suitable for ED tube fittings according to DIN EN ISO 8434-1
- Tube dimensions (tube O.D. x wall thickness):
  - Exotic tube materials, such as CuNiFe or Duplex on request
  - Stainless steel tube 1.4571: 6L to 38L / 42L

Proven quality:
- CuNiFe fittings are of one-piece construction; straight fittings are manufactured from cold drawn bar, shaped fittings are machined from high quality Parker forgings
- This gives maximum strength and integrity to Parker CuNiFe parts

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