



中国船级社
CHINA CLASSIFICATION SOCIETY

编号 B JW04010059
No.

工厂认可证书
CERTIFICATE OF WORKS APPROVAL

制造厂名 Manufacturer	KM Europa Metal Aktiengesellschaft	厂址 Address	Klosterstrasse 29, 49074 Osnabrück, Germany
产品名称/规格 Description	Copper and Copper Alloy Tubes, Flanges and Fittings OSNALINES Tube Bundles	图纸和技术文件批准号 Approval No. of drawings & documents:	BJW04010059

Production Site: Osnabrück and Menden

Description	Size (Out Diameter)	Max. Wall Thickness
Tubes : Seamless Copper (SFCU) tube	6-419mm	18mm
Seamless CuNi90/10 tube	6-457mm	8mm
Seam-welded CuNi90/10 tube	368-914mm	19mm
Seamless CuNi70/30 tube	6-323.9mm	6.35mm
Seam-welded CuNi70/30 tube	508-914mm	8mm

Flanges (CuNi90/10, CuNi70/30)
16 / 20 bar composite weld-neck, backing flanges, composite slip-on, 16 / 20 bar solid weld-neck, solid slip-on, blind (blank)

Fittings (CuNi90/10, CuNi70/30)
Butt welding fittings: Elbows (one-piece seamless or welded half -shells)/Tee-pieces(equal and reducing) / End caps/ Reducers-Eccentric (one-piece seamless or seam-welded),-Concentric (one-piece seamless or prefabricated welded) /Branches - Saddles (seamless or seam-welded), -Butt weld branch connectors, -Socket weld and threaded branch connectors

Capillary ends and socket weld fittings: Straight coupling / Male connector/ Female connector/ Reducer/ Adapter/ Union connector/Elbow/Tee/Stop end/straight union adapter/Male nipple/Female nipple/Nut and lining

Brazing Fittings: Couplings (straight and reduced)/ Elbows/ Tee pieces (equal and reduced)/ End caps/ Screw plugs/ welding ends/ Sockets

Miscellaneous: Unions / Male Unions (straight and reduced)

Tube Bundles (Sheathed with PVC, PE-LD, PE-HD stranded tube bundles of Copper, Copper-nickel Alloy and Stainless steel tube)

Multitube Number of tubes in a bundle: 2-19 tubes of Dia. 6, 8, 10, 12, 6.35, 9.52, 12.7 mm

Single tube sheathed Dia. 6, 8, 10, 12, 15, 18, 22, 6.35, 9.52, 12.7 mm

兹证明本社验船师根据我社规范和有关规则,对该厂的主要生产设备、检测设备、生产工艺、质量控制系统和有关人员的技术水平等进行了检查,并对上述产品进行了认可试验。检查和试验的结果符合要求。该厂具备成批生产上述产品的能力和条件,特发给认可证书。

本证书有效期为四年,在此期间除按规定对产品进行检验外,工厂每年应接受一次年度复查和签证。

THIS IS TO CERTIFY that the Surveyor to this Society has, according to the Rules and relevant Regulations of this Society, carried out an inspection to the main manufacturing appliance, inspection and testing instruments, workmanship, quality control system and an examination of the technical qualification of concerned personnel of the above-mentioned plant and has also carried out the approval test for the above-mentioned product(s) with satisfactory results and that the plant is found to be able to produce in batches the above- mentioned product(s). The Certificate of Works Approval is hereby issued by this Society.

This certificate is valid for four years, subject to the annual review arranged by the Manufacturer for corresponding endorsement in addition to inspection(s) required for the product(s) in accordance with the Regulations.

本证书有效期至
This cert. is valid until **December 28, 2008**

发证日期
Date of issue **December 29, 2004**



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工厂认可证书年度复查签证
ENDORSEMENT OF ANNUAL REVIEW FOR
CERTIFICATE OF WORKS APPROVAL

<p>No.1</p> <p>日期 Date _____</p> <p>验船师 Surveyor _____</p>	<p>No.2</p> <p>日期 Date _____</p> <p>验船师 Surveyor _____</p>
<p>No.3</p> <p>日期 Date _____</p> <p>验船师 Surveyor _____</p>	<p>No.4</p> <p>日期 Date _____</p> <p>验船师 Surveyor _____</p>