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Date	23.08.2017
Contract No. /Item	488463 / 3
Product Number of Customer	
Customer Number	120550
Order No.	2574
Production No.	544725
Product Number	12135266-061001913
Product	HETCOOL Copper Tube R290 3/4" x 1,3 5m
Material	CU-DHP (SF-CU)
Dimension	19,05 mm * 1,3 mm * 5 m
Norm	EN 12735-1(07.2010)

Weight Total

Net weight: 1237,00 kg

Properties

Inspection Lot 40000413924
Sample 2017072847
Mark 1

Internal carbon content max 0,200 mg/dm2 0,036
Tensile strength min 290 N/qmm 460
Elongation by fracture A min 3 % 8
Yield point Rp0,2 N/qmm 434
Eddy current testing OK
Cu min 99,90 % 99,90
P 0,0150 - 0,0400 % 0,0247

The dimensional and shapetolerances conform to the requirements. We hereby certify that the material described above has been tested and complies with the terms of the order contract.

This certification report is machinemade.
It is authorized by the undersigned person.

MKM Mansfelder Kupfer und Messing GmbH Hettstedt
K.-H. Brauer
Inspection Manager