



# Metline Industries

## Manufacturer of Pipes | Fittings | Flanges

Pipes/Tubes - Butt weld Pipe Fittings – Bends – Forged Fittings – Forged Flanges - Fasteners

An ISO 9001:2008 Certified Company, Metline Industries is a leading manufacturer, exporter and supplier of high quality admiralty brass tubing. A Copper Zinc Alloy in the ratio of 70/30 having 1-1.5% of Tin for corrosion resistance and some % of Arsenic, to help against dezincification. Its common use is for heat exchange equipments, ship building, evaporators.

### Admiralty Brass Tubes/Brass Pipes

STANDARD	BS 2871	ASTM B	DIN	NFA 51	JIS	IS
	PART3	111	1785	102	H3300	1545
SYMBOL	CZ111	C 44300	CuZn28Sn1	CuZn29Sn1	C 4430	CuZn29Sn1As
Cu	70.0 - 73.0	70.0 - 73.0	70.3 - 72.5	70.0 - 73.0	70.0 - 73.0	70.0 - 73.0
Sn	1.0 - 1.5	0.9 - 1.2	0.9 - 1.3	0.9 - 1.2	0.9 - 1.2	1.0 - 1.5
Pb	0.07	0.07	0.07	0.07	0.07	0.07
Ni	-	-	0.1	-	-	-
Fe	0.06	0.06	0.07	0.06	0.06	0.06
Zn	REM.	REM.	REM.	REM.	REM.	REM.
As	0.02 - 0.06	0.02 - 0.06	0.02 - 0.035	0.02 - 0.06	0.02 - 0.06	0.02 - 0.06
P	-	-	0.01	-	-	-
TOTAL IMPURITIES MAX	-	-	-	-	-	-
	0.3	-	0.1	0.3	-	0.3
CONDITION	M	61	F36	-	-	O
	TA	-	F32	-	O	TA
	O	-	-	-	-	D
YIELD STRENGTH N / MM <sup>2</sup>	-	-	140 - 220	-	-	-
	-	105	100 - 170	-	-	-
	-	-	-	-	-	-
TENSILE N / MM <sup>2</sup> Minimum	-	310	360	-	-	375 Mpa Max.
	-	-	320	-	314Min.	340 Mpa Max.
	-	-	-	-	-	385 Mpa Min.
ELNG'TION Percent (%) Minimum	-	-	45Min.	-	-	-
	-	-	55Min.	-	30Min.	-
	-	-	-	-	-	-
HARDNESS HV 5	150Min.	-	-	-	-	80 Max.
	80 - 105	-	-	80 - 120	-	80 - 105
	75Max.	-	-	-	-	130 Min.
GRAIN SIZE mm(75X)	0.05Max.	0.010 - 0.045	-	0.010 - 0.045	0.010 - 0.045	0.010 - 0.045
	-	-	-	-	-	-

**Exports:** Brazil, South Africa, Nigeria, UAE, Bahrain, Italy, Indonesia, Malaysia, United States, Mexico, China, Brazil, Peru, Nigeria, Kuwait, Jordan, Dubai, Thailand (Bangkok), Venezuela, Iran, Germany, UK, Canada, Russia, Turkey, Australia, New Zealand, Sri Lanka, Vietnam, South Africa, Kazakhstan and Saudi Arabia, Oman

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