

# Railway

## Alliages et normes

WROUGHT COPPER ALLOYS				
ISO	European Standard	UNS	Lba	Comments
COPPERS (>99% Cu) (C10100 to C15999)				
Cu-ETP	CW004A	C11000	CuA1	
HIGH COPPER ALLOYS (>96%Cu) (C16000 to C19999)				
CuNi2Si	CW111C	C18000	NS5 NS6 NIB2K NIB2 ALSNI2	
CAST COPPER ALLOYS				
ISO	European Standard	UNS	Lba	Comments
BRASSES (Cu-Zn) (C83300 to C89999)				
CuZn25Al5Mn4	EN 1982 / CC 762 S	C 86300		ASTM B 584
CuZn33Pb2	EN 1982 / CC 750 S			
CuZn35Mn2Al1Fe1	EN 1982 / CC 765 S			
CuZn34Mn3Al2Fe1	EN 1982 / CC 764 S			
CuZn39Pb1Al1	EN 1982 / CC 754 S			
BRONZES (Cu Sn) (C90000 to C91999)				
CuSn10	EN 1982 / CC 480 K	C 90700		ASTM B 427
CuSn11Pb2	EN 1982 / CC 482 K			
CuSn12	EN 1982 / CC 483 K	C 90800		ASTM B 427
CuSn12Ni2	EN 1982 / CC 484 K	C 91700		ASTM B 427
LEADED BRONZES (Cu Sn Pb) (C92000 to C94500)				
CuSn7Zn2Pb3	EN 1982 / CC 492 K	C 92413		
CuSn7Zn4Pb7	EN 1982 / CC 493 K	C 93200		ASTM B 584
CuSn5Pb9	EN 1982 / CC 494 K	C 93500		ASTM B 584
CuSn5Zn5Pb5	EN 1982 / CC 491 K	C 93600		ASTM B 505
CuSn10Pb10	EN 1982 / CC 495 K	C 93700		ASTM B 584
CuSn5Pb20	EN 1982 / CC 497 K	C 94100		ASTM B 505
ALUMINIUM BRONZES (Cu-Al-Ni-Fe-Si-Sn) (C95000 to C95999)				
CuAl8Mn			1981 DIN 1714 / 2.0962	
CuAl9	CC330G		A	
CuAl10Fe2	EN 1982 / CC 331 G	C 95200		ASTM B 148
CuAl10Fe2	CC331G	C95200	B	Also fits AB1, G, CuAl10Fe2, 2.0940
CuAl10Fe5Ni5	EN 1982 / CC 333 G	C 95520		ASTM B 148
CuAl10Fe5Ni5	CC333G	C95500	D	Also fits AB2, G-CuAl11Ni, 2.0981
CuAl10Ni3Fe2	EN 1982 / CC 332 G			
CuAl10Ni3Fe2	CC332G		C	Also fits G-CuAl10Ni, 2.0969
CuAl11Fe6Ni6	EN 1982 / CC 334 G			

## STEELS

Type	European Standard
Non-alloyed engineering steels	EN 10225-2 EN10222-4 ASTM A105 / A105N ASTM A350
Non-alloyed quenched and tempered steels	EN 10083-2
Alloyed quenched and tempered steels	EN 10083-3 ASTM A182