



SERVICE METAL COMPANY SRL

CONCAST[®]

Concast[®] alloys are manufactured in the U.S.A. plants by Concast Metal Products Co. the largest manufacturer of continuous cast bronzes in the USA and exclusively imported to Italy by Service Metal Company

Chemical Composition	Cu %	Fe %	Ni %	Al %	Mn %	Co %
Concast[®] 954	83,0 min.	3,0-5,0	0-1,5	10,0 -11,5	0-0,5	-
Concast[®] 959	rest	3,0-5,0	0-0,5	12,0 -13,5	0-1,5	-
Concast[®] 380	rest	4,5-6,5	-	14,0-16,0	0-3,25	0-2,5

Mechanical Properties	Concast[®] 954	Concast[®] 959	Concast[®] 380
Norm	ASTM B505 C95400	ASTM B505 C95900	
Rm	586 N/mm ² min.	703 N/mm ² . (Typical)	
Rp 0,2%	221 N/mm ² min.	407 N/mm ² . (Typical)	
A ₅	12% min.	1% (Typical)	
Hardness Brinell	190 (Typical)	241 min.	375 (Typical)
Physical Properties			
Density	7,45 Kg./dm ³	7,20 Kg./dm ³	6,93 Kg./dm ³
Coeff of Thermal Expansion	16,2 10 ⁻⁶ / °C	16,2 10 ⁻⁶ / °C	16,2 10 ⁻⁶ / °C
Thermal Conductivity	63 W/m.K	42 W/m.K	33 W/m.K
Electrical Conductivity	14% IACS	10% IACS	8% IACS
Modules of Elasticity in Tension	107 GPa	110 GPa	110 GPa