

Rapsri grade	Specification	Equivalent standards	Manufacturing process	Material category	Y.S (MPa) min.	T.S (MPa) min.	Elongation (%) min.	Hardness (BHN) min.	Electrical conductivity (% IACS)
R0	Cu-99.95%	C80100, EN1982CuC (CC040A)	Permanent mould casting & Sand casting	High conductivity copper	40	150	25	38	99 (min.)
R2 with 90% IACS	Cu-99.85%	C80100, EN1982CuC (CC040A)	Permanent mould casting & Sand casting	High conductivity copper	40	150	25	38	90 (min.)
R40	Cu-Cr	C81500, EN1982CuCr1-C, GK CuCrF35	Permanent mould casting & Sand casting	Chromium copper, Low alloy copper	200	300	10	95	77 (min.)
R75	Cu-Cr-Zr	C18150	Permanent mould casting & Sand casting	Chromium copper, Low alloy copper	517	448	15	115	78 (min.)
AB-0	Cu-Al	CuAl9	Permanent mould casting & Sand casting	Aluminium bronze	170	500	18	120	-
AB1	Cu-Al-Fe	DIN 1714 CuAl10Fe, C95300, C95400, ASTM B806, ASTM B505, SAE J462, ASTM B148	Permanent mould casting & Sand casting	Aluminium bronze	200	550	25	115	-
AB-2	Cu-Al-Fe-Ni	DIN 1714 CuAl10Ni, C95500, C95800, ASTM B763, SAE J462, ASTM B148	Permanent mould casting & Sand casting	Aluminium bronze	200	550	25	150	-
LB2	Cu-Pb-Sn	C93700, LB2 BS 1400	Continuous casting & Sand casting	Leaded bronze	138	240	6	-	-
RB031	Cu-Zn-Mn-Si-Al	RB031 (<i>proprietary grade</i>)	Permanent mould, Sand casting & Continuous casting	Manganese silicon brass	280	540	5	160	-
RB032	Cu-Zn-Mn-Si-Fe-Ni-Al	RB032 (<i>proprietary grade</i>)	Permanent mould, Sand casting & Continuous casting	Manganese silicon brass	530	750	7	180	-
C83600	Cu-Sn-Pb-Zn	CDA 83600, LTB-2 AS PER IS318, RG-5, CuSn5ZnPb	Sand casting & Continuous casting	Leaded tin bronze	97	207	20	60	-
C31400	Cu-Pb--Zn	CDA 31400, ASTB-140/140M	Permanent mould, Sand casting & Continuous casting	Leaded brass	310	379	12	60	-
ASTM B 139	Cu-Sn-P-Pb	C53400	Continuous casting & Sand casting	Phosphor bronze	NA	300	12	70	-
SI BRASS	Cu-Zn-Si	CDA 875, ASTM B806, ASTM B584, SAE J461	Permanent mould casting & Sand casting	Silicon brass	207	552	20	90	-
MnBr863	Cu-Zn-Fe-Al-Mn	C86300, ASTM B584, ASTM B505, SAE J462	Permanent mould casting & Sand casting	Manganese bronze	415	760	12	223	-
CDA 833	Cu-Pb-Zn-Sn	C83300	Permanent mould casting & Sand casting	Leaded brass	70	220	35	35	32 (min.)