

'Lead Free' Free Cutting Phosphor Bronze

Lead-free cutting phosphor bronze with complete compliance with RoHS / ELV directive (Pb : 0.01%max)

It is complete lead-free bronze that is superior in plastic workability while maintaining mechanical properties and cutting properties of conventional free cutting phosphor bronze.

Excellent machinability was realized by adding elements that have no influence on the environment, while leaving the main component of phosphor bronze intact.

Alloy Composition

Alloy No.	Chemical Composition (wt %)					
	Cu	Sn	P	S	Ni	Cu+Sn+S + Ni + P
KFX41	—	2.0-6.0	0.03-0.35	0.1-0.5	0.6-3.0	99.5min.

wt%

Product Features

Alloy No.	Temper	Size [mm]	Tensile Strength [N/mm ²]	Elongation [%]
KFX41	H	1 - 6 max.	440 min.	—
		6 - 13 max.	410 min.	10 min.
		13 - 25 max.	375 min.	12 min.

Physical Property

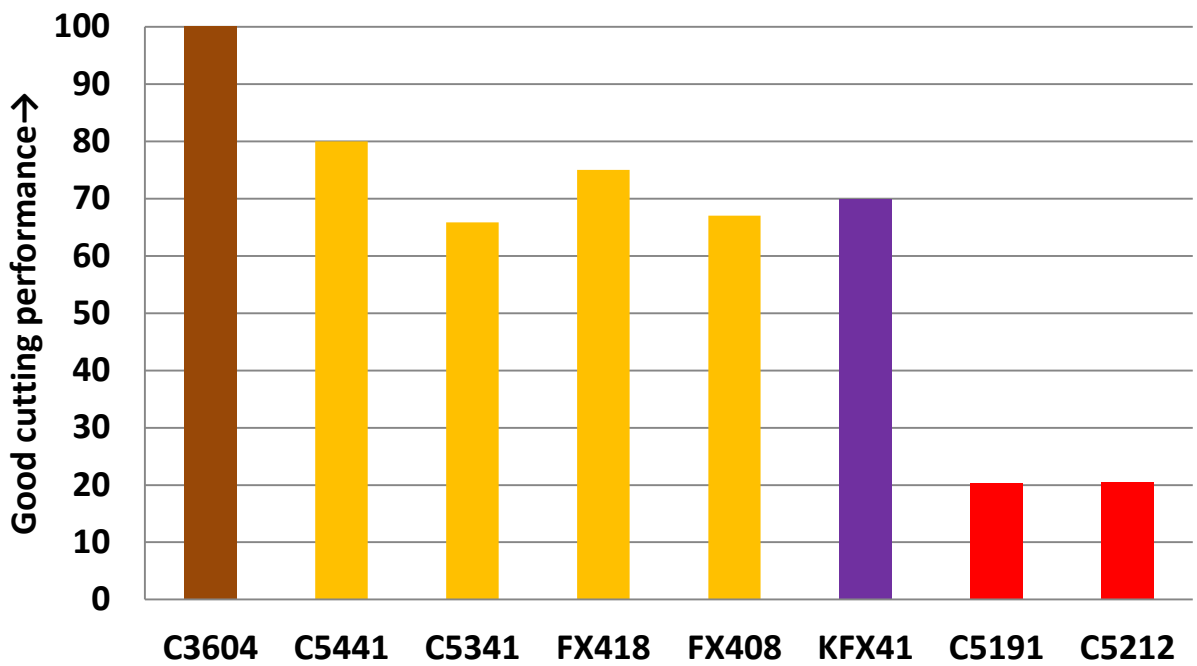
Alloy No.	Specific Weight	Electric Conductivity %IACS
KFX41	8.9	17-22

Manufacture

FUJII MANUFACTURING CO.,LTD.

Material Design

KURIMOTO, LTD.



'Lead Free' Phosphor
Bronze [KFX41]



Free Cutting Phosphor
Bronze [JIS H3270 C5341]



※Conditions $\phi 17$

Rotational speed 450rpm、Feed pitch 0.75mm、Depth cut 0.5mm

for inquiries or information