

Special Contract Rules for Copper Grade A

Quality: BS EN 1978:1998 Copper Cathodes (Cathode grade designation Cu-CATH-1)

Element	Composition, % maximum
Cu	-
Ag	0.0025
As	0.0005 ¹⁾
Bi	0.00020 ²⁾
Cd	- ¹⁾
Co	- ³⁾
Cr	- ¹⁾
Fe	0.0010 ³⁾
Mn	- ¹⁾
Ni	- ³⁾
P	- ¹⁾
Pb	0.0005
S	0.0015 ⁴⁾
Sb	0.0004 ¹⁾
Se	0.00020 ²⁾
Si	- ³⁾
Sn	- ³⁾
Te	0.00020 ²⁾
Zn	- ³⁾
Sum of elements listed in this table other than Cu	0.0065

1) (As + Cd + Cr + Mn + P + Sb) maximum 0.0015%

2) (Bi + Se + Te) maximum 0.0003%, of which (Se + Te) maximum 0.00030%

3) (Co + Fe + Ni + Si + Sn + Zn) maximum 0.0020%

4) The Sulphur content shall be determined on a cast sample

Quality: GB/T 467-2010 Copper Cathode (High-Purity Copper Cathode (Cu-CATH-1))

Element Group	Impurity Element	Content, not more than	Total content of element group, not more than	
1	Se	0.0020	0.0030	0.0030
	Te	0.0020		
	Bi	0.0020		
2	Cr	-	0.0015	
	Mn	-		
	Sb	0.0004		
	Cd	-		
	As	0.0005		
	P	-		
3	Pb	0.0005	0.0005	
4	S	0.0015	0.0015	
5	Sn	-	0.0020	
	Ni	-		
	Fe	0.0010		
	Si	-		
	Zn	-		
	Co	-		
6	Ag	0.0025	0.0025	
Where the total content of the impurity elements listed		0.0065		

Quality: ASTM B115-10 Standard Specification for Electrolytic Copper Cathode (Cathode Grade 1)

Element	Composition, % maximum	Group Total, % maximum
Se	0.0002	0.0003
Te	0.0002	
Bi	0.0001	
Sb	0.0004	
Pb	0.0005	
As	0.0005	
Fe	0.001	
Ni	0.001	
Sn	0.0005	
S	0.0015	
Ag	0.0025	
Maximum allowable total	0.0065	