

방폭공구 특성 / Specification of Non-sparking Tools



구분	Aluminum Bronze Alloy(AL-CU)	Beryllium Copper Alloy(BE-CU)
Composition/성분구성	Al: 10~12%, Ni: 4~6%, Fe+Mn: Below 5.8% Cu+Al+Ni+Fe+Mn: over 99.0%	Be: 1.5~1.7%, 1.8~2.3%, Co+Ni: over 0.2%, Co+Ni+Fe: below 1.2%, Cu+Be+Co+Ni+Fe: over 99%
Hardness(Brinell) / 강도(브리넬)	221-291	283-365
Extensibility / 신장성	$\delta \leq 5\%$	$\delta \leq 1.0\%$
Breaking / 인장강도	782 N/mm ² ~ 989 N/mm ²	1,117 N/mm ² ~ 1,326 N/mm ²
Elasticity Limit / 탄성한계	450 N/mm ² ~ 550 N/mm ²	840 N/mm ² ~ 880 N/mm ²
Elec Resistance(Ω) / 저항	8~12	6~8
Dilatation Coefficient (20~200°C) /팽창계수	0.000015%	0.000012%
Density Weight / 밀도	8.10 g/cm ³	8.60 g/cm ³
Magnetic / 자성	1.2	0
사용 범위	Ethylene gas (Concentration below 7.8%) Zone1, Zone2	Hydrogen gas (Concentration below 21%) Zone1, Zone2