

NON-SPARKING 3/4" SOCKET WRENCH SET - 20 PCS

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NON-SPARKING TOOLS

1ZONES 1, 2 (gas) & 21, 22 (dust)

3/4" Non-sparking Socket Wrench Set (12 points), made of Copper-Beryllium (Cu-Be) or Aluminium-Bronze (Al-Bron) alloys, suitable for use in hazardous areas.

The Non-sparking tools that compose this set are certified by the BAM Certification Body, stating that the materials from which they are made are suitable for use in potentially explosive atmospheres, in zones 1 and/or 21 of all explosion groups (I, IIA, IIB and IIC).



-- Non-sparking tools cannot reach the hardness of conventional tools. For this reason the use of non-sparking tools has to be carried out with special care, avoiding overstraining, heating, etc.

- To avoid damage being caused to both tool and fastener, it is necessary to always ensure that the correctly sized spanner/wrench/screwdriver is selected. Due to the reduced strength and wear resistance of non-sparking Alloys selecting the correctly sized tool becomes essential to avoid premature wear and early deterioration of the tool.

- The use of non-sparking tools must not be the only preventive measure in areas which the items are designed for. Other items, clothes or present material must also be adequate for non-sparking purposes.

COPPER BERYLLIUM ALLOY

Non ferrous substance in the composition makes it safer when non-magnetic applications are required.

COPPER-BERYLLIUM ALLOY					
Designation:	Item No.:	Designation:	Item No.:	Weight:	Item No.:
Socket wrench 3/4" - 21mm	11A75740	Socket wrench 3/4" - 30mm	11A74541	8,5 kg	11A74277
Socket wrench 3/4" - 22mm	11A75742	Socket wrench 3/4" - 31mm	11A75748		
Socket wrench 3/4" - 23mm	11A76042	Socket wrench 3/4" - 32mm	11A74542		
Socket wrench 3/4" - 24mm	11A74538	Socket wrench 3/4" - 34mm	11A75750		
Socket wrench 3/4" - 26mm	11A74539	Socket wrench 3/4" - 38mm	11A75752		
Socket wrench 3/4" - 27mm	11A74540	Socket wrench 3/4" - 41mm	11A74544		
Socket wrench 3/4" - 28mm	11A75744	Socket wrench 3/4" - 46mm	11A74545		
Socket wrench 3/4" - 29mm	11A75746	Socket wrench 3/4" - 50mm	11A74546		
Extension 200mm			11A70387		
Sliding T handle 400mm					
Ratchet 320mm			11A70376		
Socket wrench 3/4" - 3/4"	11A75754	Socket wrench 3/4" - 1.3/16"	11A75768	8,5 kg	11A35817
L Socket wrench 3/4" - 13/16"	11A75756	Socket wrench 3/4" - 1.7/32"	11A35858		
Socket wrench 3/4" - 7/8"	11A75758	Socket wrench 3/4" - 1.1/4"	11A75770		
Socket wrench 3/4" - 15/16"	11A75760	Socket wrench 3/4" - 1.3/8"	11A74557		
Socket wrench 3/4" - 1"	11A75762	Socket wrench 3/4" - 1.1/2"	11A74559		
Socket wrench 3/4" - 1.1/16"	11A75764	Socket wrench 3/4" - 1.5/8"	11A74561		
Socket wrench 3/4" - 1.1/8"	11A75766	Socket wrench 3/4" - 1.13/16"	11A74564		
Socket wrench 3/4" - 1.5/32"	11A35856	Socket wrench 3/4" - 2"	11A74566		
Extension 200mm			11A70387		
Sliding T handle 400mm					
Ratchet 320mm			11A70376		

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ALUMINIUM BRONZE ALLOY

Minimum ferrous component makes them not 100% non-magnetic, although its low magnetism make it appropriate for non critical non-magnetic applications.

ALUMINIUM-BRONZE ALLOY					
Designation:	Item No.:	Designation:	Item No.:	Weight:	Item No.:
Socket wrench 3/4" - 21mm	11A75741	Socket wrench 3/4" - 30mm	11A74550	8,5 kg	11A74278
Socket wrench 3/4" - 22mm	11A75743	Socket wrench 3/4" - 31mm	11A75749		
Socket wrench 3/4" - 23mm	11A76043	Socket wrench 3/4" - 32mm	11A74551		
Socket wrench 3/4" - 24mm	11A74547	Socket wrench 3/4" - 34mm	11A75751		
Socket wrench 3/4" - 26mm	11A74548	Socket wrench 3/4" - 38mm	11A75753		
Socket wrench 3/4" - 27mm	11A74549	Socket wrench 3/4" - 41mm	11A74553		
Socket wrench 3/4" - 28mm	11A75745	Socket wrench 3/4" - 46mm	11A74554		
Socket wrench 3/4" - 29mm	11A75747	Socket wrench 3/4" - 50mm	11A74555		
Extension 200mm			11A71283	8,5 kg	11A35826
Sliding T handle 400mm					
Ratchet 320mm			11A71273		
Socket wrench 3/4" - 3/4"	11A75755	Socket wrench 3/4" - 1.3/16"	11A75769		
LSocket wrench 3/4" - 13/16"	11A75757	Socket wrench 3/4" - 1.7/32"	11A35859		
Socket wrench 3/4" - 7/8"	11A75759	Socket wrench 3/4" - 1.1/4"	11A75771		
Socket wrench 3/4" - 15/16"	11A75761	Socket wrench 3/4" - 1.3/8"	11A74568		
Socket wrench 3/4" - 1"	11A75763	Socket wrench 3/4" - 1.1/2"	11A74570		
Socket wrench 3/4" - 1.1/16"	11A75765	Socket wrench 3/4" - 1.5/8"	11A74572		
Socket wrench 3/4" - 1.1/8"	11A75767	Socket wrench 3/4" - 1.13/16"	11A74575		
Socket wrench 3/4" - 1.5/32"	11A35857	Socket wrench 3/4" - 2"	11A74577		
Extension 200mm			11A71283		
Sliding T handle 400mm					
Ratchet 320mm			11A71273		

MATERIALS		
Copper-Beryllium Alloy		
Composition:	Be	1.8 % - 2 %
	Ni+Co	0.2 % - 1.2 %
	Otros	<0.5 %
	Resto	Cu
Hardness:	283-365 Brinell	
Tensile Strength:	1250 N/mm ²	
Aluminium-Bronze Alloy		
Composition:	Al	10 % - 12 %
	Ni	4 % - 6 %
	Fe+Mn	<5.8 %
	Otros	<0.5 %
	Resto	Cu
Hardness:	229-291 Brinell	
Tensile Strength:	800 N/mm ²	

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PROPERTIES AND FEATURES

Property:	Application or benefits:
Non-sparking	Appropriate for explosive potential environments.
Non-magnetic safety	Essential for equipments that require complete non-magnetic safety.
Corrosion resistant	Specially well suited for applications in corrosive environments like encountered in marine works or fire-fighting applications.
Forged after casting	Provide higher mechanical properties and better finishing.
Ergonomic designs	The use of bi-material anti-slippery handles, dipping anti-slippery handles, totally ergonomic designs make operations easier, more comfortable and master.

CAUTION:

These tools are not classified as anti-static because they do conduct electricity. Do not use high copper content tools (>65%) in direct contact with acetylene due to the possible formation of explosive acetylide, specially in the presence of moisture.

DIFFERENCES AND HOW TO MAKE THE CORRECT CHOICE

Concept:	COPPER-BERYLLIUM Cu-Be	ALUMINIUM-BRONZE Al-Bron
Hardness:	283-365 Brinell.	229-291 Brinell.
Magnetism:	Non ferrous substance in the composition makes it safer when non-magnetic applications are required.	Minimum ferrous component makes them not 100% non-magnetic, although its low magnetism make it appropriate for non critical non-magnetic applications.
Durability:	Much higher due to the higher hardness and tensile strength. Higher efforts can be made.	Not as much as Cu-Be
Price:	Higher price due to the special raw material used.	Significantly lower price.

MAIN APPLICATION FIELDS

Petrochemicals	Plastic manufacturing	Breweries	Air Forces
Refineries	Pharmaceutical Industry	Alcohol processing industries	Navy
Oil Companies	Fireworks Industry	Distilleries	Weapon & ammunition fabrication
Gas & oil pipe lines	Chemical Industry	Fire-fighters	Aerospace industry
Power Stations	Paper making Industries	Mines	Automobile Industry
Paint Manufacturing	Flour silos and mills	Defence	Etc.