

TECHNICAL INFORMATION SPARK-PROOF TOOLS

Beta Utensili S.p.A. is in the field of sales of Non sparking safety hand-tools; the scope of the tests and the chemical analysis here under reported is to check the real technical features for these tools and above all to confirm that they belong to the category of “ non sparking safety tools”

These information refer to the following items :

30BA	330BA	1046BA	1719BA
31BA	363BA	1082BA	1727BA
34BA	378BA	1150BA	1728BA
39BA	386BA	1162BA	1737BA
42BA	921BA	1166BA	
42BA/AS	921BA/21	1270BA	
55BA	921BA/22	1270BA/LP	
55BA/AS	921/42	1272BA/PH	
58BA	921BA/50	1370BA	
78BA	926BA	1379BA	
78BA/AS	926BA/50	1380BA	
89BA	961BA	1381BA	
90BA	963BA	1703BA/P	
96BA	964BA	1703BA/PL	
99BA	966BA	1717BA	
110BA	966BA/V	1717BA/1	

Chemical Composition

Composition	Be	1.8 ÷ 2.3%
	Co+Ni	min 0.2%
	Co+Ni+Fe	max 1.2%
	Cu	balance

Main Mechanical Features

Hardness	310 ÷ 360 Brinell
Tensile strength	1050 ÷ 1200 N/mm ²
Yield point	840 ÷ 880 N/mm ²

Compliance with the Spark-proof specifications :

In order to verify the effective compliance of spark-proof specifications, we made a specific test grinding the tool on a grinding machine, verifying the absence of sparks.

Test features :

Item tested : 96BA size 10 mm

Environment test : The test was made without the artificial lighting

Machine used : Belt sanding machine

Speed : ~ 3.000 rpm

Belt : grain 60

Max pressure : ~ 40 N/cm²

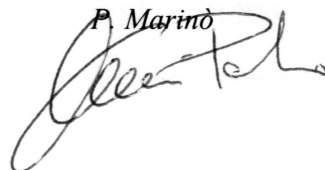
Application force time : 10s + 10s

Result : No sparks

Conclusions :

On the grounds of the effected trial, and of the results - no sparks during the grinding phases - and considering the chemical composition of alloy used, these tools can be considered " Non sparking safety tools "

Technical Manager



P. Marino