



**UNIWEELD IND. DE ELETRODOS LTDA**

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**COMMERCIAL NAME: ESSEN SG 500**  
**STANDARD: SPECIAL PRODUCT**

**Revision: 00**  
**Date: 02/2019**

**Chemical characteristic of the deposited metal**

This cutting consumable, bevel and gouging are not applicable Chemical Analysis.

**APPLICATION FIELD**

It is a graphite electrode (carbon) with copper-coating for bevel cutting and gouging, being assisted by a jet of compressed air and electric arc by a grinding machine, featuring a low material consumption, efficient, obtaining a stable, good Arc electrical conductivity, there is two types of electrode round coated copper with tongue and groove and without fitting, interlocking it eliminates the loss of material due to continuity an embedded electrode on the other with an equivalent savings to 35% no plug is a normal pattern of graphite electrodes used for cutting parts, faulty welds, remove excess solder removal of small and large defects in casting parts, drilling holes, remove broken, removal of screws, etc., used in Sugarcane, petrochemical, Metallurgy, Mining, Steel and Etc.

**TECHNICAL CHARACTERISTICS**

It is an excellent electrode performance, efficiency and speed, because the breath no residues on the surface and removing the undesirable parts in the parts free of charring and facilitating the operation.

**OPERATIONAL CHARACTERISTICS**

**Type of current used:** DC +

**Operating position:** All the positions

**Compressed air pressure:** 6 to 8 kg / cm<sup>2</sup>

Diameter (Inches)	1/2 "14"	1/2 "17"	1/4 "12"	3/4 "12"	3/4 "17"	3/8 "12"	3/8 "17"	3/16 "12"	5/8 "12"	5/16 "12"	5/32 "12"
Diameter (mm)	13.00 x 355	13.00 x 430	6.50 x 305	19.0 x 305	19.0 x 430	10.00 x 305	10.00 x 430	5.00 x 305	15.90 x 305	8.00 x 305	4.00 x 305
Amps (A)	750-900	750-900	300 - 380	850 - 1000	850 - 1000	450 - 520	450 - 520	150 - 250	800 - 950	350 - 450	130 - 200
Packaging (pcs)	50	50	50	50	50	50	50	100	50	50	100

**TECHNICAL OPERATIONS**

Making the adjustment of the machine parameters as the diameter and the flow of compressed air to apply the material perpendicular movement removing the undesirable parts in pieces using the electrode in inclination from 25° to 45° over a distance of 3 to 5 mm in regarding the piece, to facilitate metal removal rate.