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COMERCIAL DESIGNATION: ESSEN 12

PATTERN: PRODUTO ESPECIAL

Chemical Analysis from Deposit	Cu	Sn	Mn	Si	Zn

Application Field	ESSEN 12 is a small rod of brass, developed to multiple applications, in production and maintenance. In the large variety of weldings, with high traction resistance and low temperature, producing clean and soft junctions free of pores. They can be united among them with different kinds of metal, like copper and its alloy, copper with iron, brass with fused iron, copper with brass, copper with bronze or the union of these metals among them without fusing the basis
Technical Characteristics	Special alloy like red-hot with high fluidity, traction resistance and low temperature. With this alloy, brass can be fused without fusing the basis metal. Steel: Laminated - Forged – Fused Iron: Laminated – Fused – Galvanized Copper: W/Steel – Iron Brass: W/Steel – Iron Bronze: W/Steel - Iron
Mechanical Proprieties	Traction Resistance: 52kg/mm2 Extension (L= 5d): 26% Hardness: 110HB Electrical Resistance. Esp.: 13/mm2 Specific Weight: 8,4 Fusion Point: 890°C
Operational Characteristics	For process – Oxi-Acetilenic Welding position: Plain

∅ In mm	2,38x900mm	3,17x900mm	3,96x900 mm
Package	10 kg	10 kg	10 kg

Welding Techniques	Clean the area to be welded in small thin metal sheets and small parts, use the small rod covered ESSEN 12 applying directlyon the parts, because the covering flux is enough to disoxide the welding place. Bigger parts, even using ESSEN 12 disoxiding the welding area. Heat the part indirectly, the torch flame carbonize the flux, obstructing the welding.