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Welding electrodes manufacturing process pdf

The Sharp group was started in a very humble manner way back in 1967 by the founder Shri KK Ramaswamy in his native village Kalapatti which is about 8 kms from the Manchester of South India - Coimbatore. The Company was started with an initial investment of Rs 25000 in a plant area of 2000 Square feet with a single lathe and two workmen. The founder was the first generation engineer from the reputed PSG College of Technology. A major breakthrough came in the form of an order for spare parts from Vikram Sarabhai Space Research Centre Trivandram. Based on quality and timely supply, a major order for 100 MT Hydraulic Press, came the company way, which was also effectively executed to their entire satisfaction. Our erstwhile Managing Director Shri K Jagannathan (Third brother of our founder) had played a vital part in executing this order through dedicated hard work spending sleepless nights to deliver the machine of the right quality on time. Ahura Welding Electrode Ltd was in the process of expansion and they wanted to indigenous certain machines for their welding plant. They having come to know about the acumen of the company had favoured the company with orders for complete plant for manufacturing welding electrode. The company was able to supply the machine at a cost of Rs 2.5 Lakhs as against the imported plant of Rs 10 lakhs, which turned the tables on further for the group. From there on there was no looking back, the company grew at a scorching pace with multi products at multi locations. Since the Company had chartered a growth path, the other two brother Shri. K.K. Ramachandran and Shri. K.K. Rajan joined the business based on their expertise in Finance and Marketing respectively. The growth was accelerated and the following companies come into existence. Sharp Industries - 1978 Sharp Pumps Pvt Ltd - 1986 Sharp Electrodes Pvt Ltd - 1988 From a small workshop the group has grown into a corporate with a combined turnover of Rs 250 Crores. Kalapatti an erstwhile obscure sleepy village with lush greenery predominantly agrarian has transformed into a major Industrial hub bustling with economic activity providing gainful employment to a huge populous. We owe it to the Sharp family for such stupendous growth the place has witnessed. With a view to spread the wings of the group all the companies had been bifurcated between the four brothers. Shri K Jagannathan along with his wife Shrimati J Mohanasundari had started heading this group since 1992. Sharp Electrode Pvt Ltd was started with the single minded objective of producing world class electrodes to cater to the multi various industrial sectors in India as well as abroad. The company has carved a niche for itself on par with the global players in the international arena through top class products catering to Global buyers. The Company has its registered Office at Kalapatti Coimbatore having manned by a team of multifaceted professionals effectively supported by highly motivated workforce. Coimbatore is well connected by Road, Rail and Air. Further its proximity to the Shipping hubs of South India namely Cochin, Chennai and Tuticorin Ports is a major advantage to further export trade. Sharp Electrodes Coimbatore is dedicated to achieve customer satisfaction through our high performance and high-quality welding electrodes and cutting electrodes. Since its inception in the welding industry, Sharp welding electrodes, Sharp welding rods and Sharp cutting electrodes are setting the standard of the welding consumables high both in the Indian and Global market. 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Production of Stick Electrodes, Welding Rods, Weld Rods. An electrode is a metal wire that is coated. It is made out of materials with a similar composition to the metal being welded. Welding electrodes are installed in the weld head to touch and maintain contact with the work pieces through the full weld schedule. The welding electrodes play three different roles in resistance welding; maintaining uniform current density, concentrating current at welding points, and maintaining thermal balance during welding. Welding electrodes are used for Arc welding purposes. The electrode is coated with the flux. Although electrodes are produced in different gauges, for the purpose of calculation for financial implications of technical details, the assumption has been made for the production of electrodes of 4mm dia core rods. The electrodes are used for fabrication work for joining the steel, alloy steel and cast iron parts for hard facing of jobs etc. Welding is used to joining two or more metals or thermoplastics permanently with help of coalescence. Many energy sources are used for weldings such as molten metal baths, electric arcs, gas flames, electric resistance, friction, lasers and ultrasound. There are solid states welding processes like friction welding or shielded active gas welding which is widely applied because in these processes metal does not melt. Welding products are used in various end-user industries like marine, building & contractions, automobile, offshore and others. Cost Estimation: Capacity: 1200 MT/Annum (Welding Rods) Plant and Machinery cost: 21 Lakhs Cost of Project: 165 Lakhs Rate of Return (ROR): 49% Break Even Point (BEP): 40% Market Outlook On the basis of welding consumables, the global welding consumables market can be segmented into stick electrodes, solid wires, flux cored wires, SAW wires & fluxes, and others. The stick electrodes segment accounted for 40.5% value share in 2016 and is expected to expand at a significant CAGR over the forecast period. On the basis of application, the global welding consumables market can be segmented into automotive & transportation, building & construction, marine applications, and others. The building & construction segment accounted for 16.8% value share in 2016 and is expected to expand at a CAGR of 5.9% over the forecast period, due to increasing building and construction activities in emerging countries such as China and India. The welding industry in India comprises various large, medium and small companies that manufacture welding consumables. Demand for welding consumables is directly proportional to steel production in the country. End-use industries such as transportation, building & construction, oil & gas, and power are likely to drive the welding consumables market in India in the near future. However, factors such as inconsistent supply of quality raw materials, shortage of skilled labor and competition from international companies may hamper market growth during the forecast period. Welding stick electrodes dominated the welding consumables market in India. Stick electrodes are primarily used in manual welding and are a low cost alternative to other types of welding consumables products. The demand for welding consumables in India is likely to experience strong growth owing to the incessant advancements in technology and extensive growth of the end-use industries. The Indian welding consumables market is likely to rise at a 5.6% CAGR between 2014 and 2020. The market was worth INR 30.88 bn in 2013 and is likely to rise at a valuation of INR 45.37 bn by the end of 2020. The global welding products market size was estimated at USD 11.82 billion in 2015 and is expected to witness significant growth over the forecast period. The factors can be attributed to rising demand from key application segments such as building and construction, transportation and automobiles, and marine. During the period 2016 - 2025, the global market is expected to grow at a CAGR of 5.3% to reach USD 19.76 billion by 2025. This growth can be credited to rapid urbanization and infrastructure development especially from emerging economies such as India, China, and others. Asia Pacific and Europe together account for more than 53% of global market size. Rapid infrastructural development and technological advancements in the automotive industry are expected to encourage demand over the forecast period. See more Contact us: Niir Project Consultancy Services An ISO 9001:2015 Company 106-E, Kamla Nagar, Opp. Spark Mall, New Delhi-110007, India. 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