Why Magmaweld Consumables?

Quality Raw Materials
- Minerals & metal powders used in the formulas of electrodes, flux core wires & fluxes, are purchased according to strict specifications and international standards, thus all over the world.
- Each raw material is monitored and tested in our modern chemistry, physics & metallurgy laboratories. This is a very important base of uniformity testing, low spattering during welding and consistency in quality.
- Quality assurance of raw material is very important bases for uniform coating, low spattering during welding, high mechanical properties and consistency in the quality products.

Modern Manufacturing Technology
- Magmaweld's modern factories are based on modern lean manufacturing technology. Solid and flux core wire products have been recently installed and developed according to the European manufacturing technology.
- Magmaweld’s manufacturing lines are automated and computerized with real time data collection systems. Process parameters are monitored and controlled in real time for quality improvements and preventive maintenance. (Industry 4.0)
- Magmaweld’s production processes are under constantly reviewed and improved with Lean Production, TPM, 5S, 6 Sigma etc. publications.
- High precision and best maintenance production equipment
- Standard operation procedures (SOP) with test production instructions
- Computerized systems
- Experienced operators
- Standard operation procedures (SOP) with test production instructions

Modern Process BasedLean Management
- Process management rather than hierarchical management ensures quicker response time to customer needs. All corporate promises, including DSM runs on Oracle database system.
- %100 control for each lot
- Modern & accurate analysis equipment for chemical, physical and metallurgical analyses.
- Wide range of suppliers from all around the world.
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The Best Welding Rods & Strips
- Chemical, physical and mechanical properties of wire rods and strips are controlled with modern spectrometers, physical and mechanical test equipments.
- 100% in-air and oil basis. Although suppliers already provide test certificates, cross checking the manufacturer’s list analysis provides quality assurance of products with high quality production and consistency.

Ideal Electrode, Flux, FCW Formulas
- Magmaweld product formulas and production processes are developed according to customer expectations and ISO. Experienced R&D teams select optimum materials and evaluate and test them developed highly satisfactory product by using modern laboratory equipments & prototyping systems. Developed formulas are also processed in wet and dry test mils, to have the quality right composition. Process production of dry and wet tests of each formula are done in comparison with existing systems in labs.
- Wide range for different steel types
- Customer oriented format temperature development
- Modern NBR prototype labs
- Effective field test before mass production of new designs.

Perfect Welding and Technological Properties of Welding Consumables
1. Easy striking of arc electrodes
2. Easy re-cooling of electrodes
3. Stable and smooth arc
4. Suitable arc widths
5. Longer welding seams
6. High deposition rates
7. Easy slag removal
8. Flux free wires
9. Cool reactant
10. Higher weld root mechanical properties
11. Higher weld defect
12. Higher corrosion resistant in stainless steels
13. Higher root and weather resistant products
14. Greater in such production lot
15. Better thread packing
16. Good impact toughness at low service Temperatures
17. Less diffusion hydrogen levels
18. Low welding fume emissions

The Best Welding Consumables Physical Properties
1. Smooth electrode coating
2. Strong & durable electrode coating
3. Sharper electrode coating showing distinct, without eccentricity.
4. Excellent electrode tip preparation for easy striking
5. Clean outer surface
6. Smooth outer surface
7. Excellent weld fluidity
8. Stronger weld spouts
9. Strong flux particles
10. Higher melting rate
11. Considered flux grain size distribution
12. Cleanable peeling in each type of product
13. Availability in different packaging: box, spools, drums, bage
14. User friendly product packing

The Best Wire Rods & Strips
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