

WHY STEEL IS BETTER THAN PLASTIC

FOR MATERIAL HANDLING CONTAINERS

1. MORE TEMPERATURE RESISTANT

- Operating range of steel is -150 F to +1600 F (-101 C to +871 C). Operating range of plastics is -60 F to 250 F (-51 C to +121 C), although some specialty plastics have a wider range.

2. MORE CORROSION RESISTANT

- High-alloyed stainless steel grades resist corrosion in most acids, alkaline solutions and chlorine environments. Most plastics cannot.

3. PROTECTION AGAINST FIRE

- Special high chromium and nickel-alloyed steels resist scaling and retain strength even at high temperatures.

4. MORE VERSATILE

- Steel can be coated with plastic to gain the benefits of both products.

5. CLEANER

- Industrial oils, grease and solvents stain plastic more deeply than steel. Stainless steel surfaces are easier to maintain in original appearance.

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6. STRONGER

- Steel has greater tensile strength. Ventilation holes degrade strength of a plastic washing container more than in wire mesh or laser-cut sheet metal.

7. LESS WATER ABSORPTION

- Steel has none. Plastic has some water absorption, depending on the plastic.

8. LESS EXPENSIVE TO MAKE

- Marlin Steel uses simple forming methods to make steel products. Most plastics require a custom mold, which incur a high up-front tooling cost.

9. LESS EXPENSIVE LONG TERM

- When total life cycle costs are considered, including initial tooling, stainless is often a less expensive material option.

10. MORE SUSTAINABLE

- Most plastics come from petroleum, a non-renewable, often imported resource.

