



CRA BASICS: MATERIAL HANDLING

While duplex stainless steels, austenitic stainless steels, and nickel-based alloys are naturally resistant to atmospheric corrosion in most industrial environments, improper handling of these alloys may result in compromised material performance. Without special care, corrosion may result from surface damage or contact that often occurs during storage or transportation.

However, it is important to understand that if rust is not embedded, or has not disturbed the original pipe surface, it is considered to be superficial and not detrimental to the product. Conversely, embedded corrosion caused by contact with a steel that is not corrosion resistant, such as chains, nails, pipe stakes, and metal forks can result in damage to the material if not remediated appropriately.

To avoid these issues, certain minimum handling processes should be utilized:

1. Avoid metal to metal contact during loading and unloading by using padded or sleeved fork coverings.
2. Do not use metal chains to strap cra material during transportation.
3. Ensure that there are no exposed nails on dunnage that could contact the material during storage or transportation.
4. Use padded pipe stakes on trucks to avoid contact with the material.

**While every effort has been made to ensure the accuracy of the above review, assessment, conclusions, and report, the appropriateness of their application and their interpretation remain the sole responsibility of the user.*