



Looking for Cost Savings and Corrosion Resistance on your Toughest Applications? We continually strive to meet customers' needs.

Melonite™ Process offers a significant cost savings and alternative option to Stainless Steel. Melonite™ Process available in the complete ATRA-FLEX® Coupling Line.



**ATRA-FLEX®**  
*Flexible Couplings*

Melonite™ Process  
Cost Saving alternative to Stainless Steel

Corrosion and Wear Resistant to Chemicals and Harsh Environments

Providing Cost Saving Solutions Since 1980

[www.atra-flex.com](http://www.atra-flex.com)

- Increased surface hardness
- Lower coefficient of friction
- Enhanced surface lubricity
- Improved running wear performance
- Enhanced corrosion resistance
- API 610 Couplings available
- Suitable for damp, wash-down and chemical areas
- Proven in the field for harsh mining and aggregate applications
- Increased rotating fatigued strength and longer hub life in the event of misalignment or vibration
- Unlike nickel coating; does not scratch or wear off



**Excellent value added on Mining, Pulp and Paper, Marine, Dredge, Aggregate, Forestry and Chemical plant applications**

\*\* Suitable for food and processing (below food wash down areas)but is not FDA approved due to its black color.

ATRA-FLEX® is proud to Offer MP. The MP stands for Melonite™ Process. This process is available as an option with our complete coupling line to provide corrosion and wear resistance. This process has been proven in the field to prevent corrosion caused from applications in wet or chemical environments as well as wear and fretting due to misalignment and vibration. It is a low cost alternative to stainless steel suitable for marine applications. Melonite is a thermo-chemical treatment for improving surface properties of metal parts. It exhibits predictable and repeatable results in the treating of carbon steels resulting in superior corrosion and wear properties as well as increasing rotating fatigue strength. During the process, which takes place between 900F and 1075F, the metal surface is enriched with nitrogen and carbon. A two-part nitride layer consisting of a monophasic compound layer and diffusion layer is formed. Total depth ranges from .008-.040". Hardness in the compound layer is increased to an average of 57.6 Rockwell C. The end result of this process creates a black matte finish that unlike black oxide will never wear off.



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