

## MLX17: A very high strength stainless steel

A technical brochure dedicated to the MLX17 is now available.

MLX17 has been developed as a high strength stainless steel, offering solutions to the ban of Cr and Cd.

The development consisted in increasing Al and Ti contents from the current PH grades and balancing the Cr, Mo and Ni contents to ensure corrosion resistance and high fracture toughness.

MLX17 shows:

- High strength,
- High corrosion and stress corrosion resistance, as demonstrated by the US Navy laboratory,
- Good fatigue behaviour for structural applications.

MLX 17 replaces non stainless grades commonly used for structural applications (AISI 4340 (NC40M), E-30NiCrM16 (FDMAW), E-35NiCrMo16 (819AW)...). It is also used to increase the performance of parts currently made with lower strength stainless steels like PH13-8Mo or 15-5PH.

MLX17 appears in the MMPDS handbook.

It is used for:

- Aerospace applications (landing gears, wheel parts...)
- Fasteners,
- High pressure vessels.

You will find attached a ".pdf" version of the brochure. Do not print yourself, but use already printed documents to be ordered at the following address:

[documentation-ad@eramet-aubertduval.com](mailto:documentation-ad@eramet-aubertduval.com)

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