
Reports qualifying coatings on A490 bolts, submitted to ASTM Committee F16 on Fasteners

1. **ASTM F1136/F1136M**

Brahimi, S. (2006). Qualification of Dacromet for use with ASTM A490 high-strength structural bolts - An investigation per IFI-144. ASTM Committee F16 on Fasteners, IBECA Technologies Research Report.

2. **ASTM F2833**

Brahimi, S. (2011). Qualification of ASTM F2833 coatings for use on ASTM A490 high strength structural bolts. ASTM Committee F16 on Fasteners, IBECA Technologies Research Report.

3. **ASTM F1136/F1136M**

Brahimi, S. (2014). Qualification of ASTM F1136 non-chrome (GEOMET 321 for use with ASTM A490 high-strength structural bolts - An investigation per IFI-144. ASTM Committee F16 on Fasteners, IBECA Technologies Research Report.

4. **ASTM F3019**

Brahimi, S. (2017). Qualification of F3019/F3019M coatings DELTA PROTEKT®KL 105 for use on ASTM A490 high strength structural bolts. ASTM Committee F16 on Fasteners, IBECA Technologies Research Report.

Other related publications

1. Brahimi, S. and S. Yue (2009). Effect of Surface Processing Variables and Coating Characteristics on Hydrogen Embrittlement of Steel Fasteners. M. Eng. Thesis, McGill University, Montreal, Canada.
2. Brahimi, S., et al. (2009). "Effect of surface processing variables on hydrogen embrittlement of steel fasteners Part 1: Hot dip galvanizing." Canadian Metallurgical Quarterly **48**(3): 293-301.
3. Brahimi, S. (2014). Fundamentals of hydrogen embrittlement in steel fasteners, Industrial Fasteners Institute.
4. Brahimi, S., et al. (2017). "Alloy and composition dependence of hydrogen embrittlement susceptibility in high-strength steel fasteners." Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences **375**(2098): 20160407.
5. ISO (2019). ISO/TR 20491:2019 Fundamentals of hydrogen embrittlement in steel fasteners. Switzerland, International Organization for Standardization (ISO).