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To the responsible department

Unsere Referenz
SH

Ihre Referenz

Datum
14.4.2009

Resistance of PMA Products against Salt Water / Salt Spray Test

Dear Sirs

You requested documents and statements regarding a salt spray test for following PMA materials:

1. Modified PA6 and PA12 conduits such as VAM/VAML and PCS.
2. Connectors with metal thread made of brass nickel plated.
3. O-ring – OR series.
4. Flat gasket, SVN4 series.

PMA has not ordered any salt spray tests in the past; this has been done so far on customer side. Test results and certificates are thus not available.

However, PMA can confirm that

- All Polyamide and NBR (O-ring, flat gasket) material are absolutely and unlimited salt (water) resistant
- Nickel plated brass has also an excellent resistance against salt water. The Nickel enhances the good salt water resistance of brass by preventing any contact with salt water. Brass is a typical material used in marine and railway applications.

In many long-term railway and also marine projects all these materials showed never any problems with corrosion.

Kind Regards

PMA AG



Peter Schuster
Development and Production Director



Thomas Bühler
R & D

Zürcher Kantonalbank | Konto 730 1130-0035.533 CHF
CH-8610 Uster | IBAN CH05 0070 0113 0000 3553 3
Konto 755 1355-00004.413 EUR
IBAN CH37 0070 0135 5000 0441 3

Credit Suisse | Konto 5288 477072-31 CHF
CH-8610 Uster | IBAN CH28 0528 8047 7072 3100 0
Konto 5288 477072-32-2 EUR
IBAN CH37 0528 8047 7072 3200 2

PC-Konto 80-13872-9
MwSt.-Nr. 221 355
ZAZ-Konto 1750-6