

Date : 17-19 Nov 2003

Manufacturer: Poly Implants Protheses, 337 Avenue De Bruxelles, 83507 La Seyne sur Mer, FRANCE

Products:



22

→ typo error in data we had

Document Review	Audit observations
<p><b>Clarification of identity of material components</b></p> <p>1 <b>Technical File D.1.2 : "raw material and manufacturing processes for both envelopes is the same"</b>            In relation to material equivalency, testing the envelope from the saline filled envelope was used for some testing for the gel filled implant :</p> <p><u>envelope from saline implant:</u>            MED 6400 : xylene dispersion (envelope &amp; patch)            MED2 6400: 1,1,1 trichloroethane (tex envelope last layer &amp; patch)</p> <p><u>envelope from gel implant</u>            MED6 6400 : xylene dispersion (envelope, closure &amp; patch)            MED 6400: xylene dispersion for 1<sup>st</sup> gluing layer</p> <p>How are these equivalent?</p> <p>2 Biological safety testing of the envelope was conducted on the main shell component MED6 6400 and did not include the patch closure component – you replied recently that the closure patch was less than 3% of the total so you did not need to test</p> <p>How have you determined that the main shell and the closure patch are chemically equivalent?</p>	<p>MED6 6400 is the 1,1,1 trichloroethane dispersion (TCE)            - no longer using 1,1,1 trichloroethane in MED2 6400 as of Feb 2001 →</p> <p>when questioned the Q.C. leader? (Mr Bossie) answered that the saline + gel envelopes are exactly the same, since TCE not used anymore            - advised they need to inform TSA of this change - they said they would send to TSA.</p> <p>- DIFF. btwn MED 6400 - has phenyl groups and MED6 6400 - has vinyl groups instead of phenyl.</p> <p>Advised that they need to provide evidence of chemical equivalence. Saying            → Haven't shown this chemically - they reiterated that it's only 2-3% of envelope. Told them this is not enough, they need to show its chem. equiv. - explained part 18 in 1993.            → f do tox. risk assessment to determine if it's the same or they need to do test.</p>

we as eng of design changes for QMS.

1

2

**Discrepancy of identity of closure patch in documentation**

3 Q: Is it MED 2245, as appears in some of the materials and manufacturing data or is it MED 6400?

MED 6400 - is patch  
MED 2245 - is glue

4 There were fatigue tests conducted in 1996 of 3 samples from each of the sample sizes, 2 million cycles was conducted. This appears a bit low to me, and know EN12180 is not good in this respect- have you considered fatigue testing to failure and recording the number of cycles?

- also this testing was done pre 1/1/1 trichloroethylene change in Feb. 2001.

P.L.P. did some tests for FDA (at 10 mill. cycles) as requested for saline implant. Conceded that 2 mill cycles is (low). Are currently engaged in starting the fatigue testing for the gel implant again, they are tending (??) for the fatigue testers so that they can either have them on site or leave long term off-site. Intending to test to failure & work out forces involved. Their justification is that all the mechanical parameters have not changed at all from the old env. to the new envelope - all specs are same (showed us the Design Change folder on this table same env. spec.)

**Biological safety testing**

There are two issues from the biological safety data:

1 the dosage used in the reproductive toxicity testing is equivalent to 2 500cc implants and yet you intend to market up to 800cc implants

Q how can you justify the applicability of data that relates to the lower dosage?

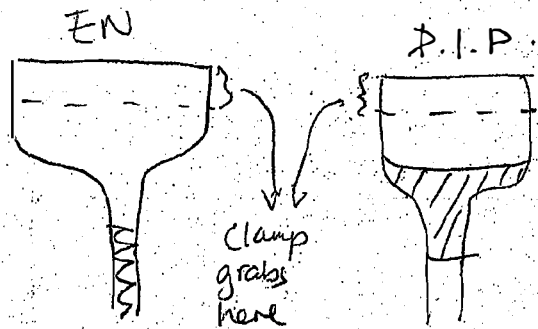
2 The genotoxicity regime you have used does not fully comply to ISO 10993-3. What is the scientific justification for not complying?

ISO 10993-3 "...a series of in vitro tests shall be used. This series shall include at least 3 assays. At least 2 of these should preferably use mammalian cells as a target

- Still not able to justify this - the Reg. Officer said she wanted time to discuss & testing home & will get back to FDA

- The Reg. Officer requested that she will get back to us in letter, tried to explain 10993-3 - got imp. Reg. Officer relying on testing home's explanation - told her there really was none.





Same technician  
do several samples

10 All <sup>conforming</sup> specimens conformed to breaking force  
+ then did elong test  
+ then traction test

The critical test showed that there was no  
diff. in the test.

With the P.I.P. specimen they say they get  
a greater surface area on the dumbbell  
which is patched and  $\therefore$  if this is a  
weak point, will be more likely to break

This comparison of ~~conform~~ conform vs N.C. has  
been checked once a year for the past 10  
years (since mid '93) & they get the  
same validation each time

<p>The range in thickness of the smooth envelope can vary from 0.4 to 0.63 in a batch - is this tested routinely? Does it tend to be nearer 0.63 or 0.4?</p>	<p><u>Methodology</u>          3 batches of smooth <sup>S.D.S</sup> were 0.04, 0.07, 0.10 and within 0.4-0.6.          → Yes, tested as part of mechanical Q.C. tests</p>
<p>The dipping operation is conducted so that there's a quarter rotation in between the 4 layers           How is this controlled?</p>	<p>mandrel is round &amp; it's turned 90° each time (there's 4 mandrels / each spike)           there's a number on the mold &amp; the operators turn them 90° clockwise each time according to their working instructions.          (Cure times at end of each 'spike')</p>
<p>Sight records for viscosity testing of batches of weekly solutions of silicone plates before and after storage.</p> <p>↓          check in Device History Records</p>	<p>There's a lot # on initial bulk that corresponded to the one that came in (28882)          - what they call the "weekly" soln. is given a # that corresponds to the day of the year          &amp; then each viscosity tested prior to me is given an additional lot # to show the later lot          (2803 for plates)</p>

↓  
 viscosity tested in <sup>same area</sup> room where mixing occurs. (in "Mixing Room")

<p>The text says prepared every 3-4 days whereas flowchart has "weekly" - a clarification is required</p>	<p>→ its sort of both - the soln. is used <del>the</del> 3-4 days but they need to do it weekly when they didn't have as many moulds or space</p>
<p><b>Preparation of texturing solutions</b>          After texturisation, the shells are inflated with compressed air to twice their volume in water to check for holes</p> <p>Sight records of SQ1/13 FOR 401- (these appear to be records of whether the product has passed this step and should include space for nonconforming product?)</p> <p>D.H. Record</p>	<p>Visual test, records <del>kept</del> filled in where it happen</p> <p>Yes</p>
<p><b>Patch gluing</b></p> <p>Observe patch gluing - is this conducted with gloves worn by staff (photo in MET02/002 23/27 with no gloves worn)</p> <p>How is the Glue reject detection step performed? (observe as to how long after the gluing it occurs)</p> <p>catalysts, cool then test - to SOP</p>	<p>Gloves not worn - workers wash + disinfect their hands to procedure</p> <p>(found that gloves interfered c step, + were too many NLS)</p> <p>Currently, just bf laser step ~ 10-15% of product does not conform, think it may be that <del>staff</del> b/c staff rotate around tasks. Are going to start study where staff concentrate / specialise on tasks.</p>
<p><b>Catalysis</b></p> <p>Verification of catalysis time and temperature to criteria          What are the criteria? (docs FCQ 140/01)</p>	<p>Temp + time controlled - details on wall. The ovens all have data loggers which map catalysis time + temp for each catalysis step.</p>

**Mechanical tests - random samples**  
How are random samples chosen?

- pick 3 or 5 (depending on sampling plan) from oven  
at top, mid + bottom. Pick for diff volumes  
- can have 3 to 20 volumes for  
same lot.

**Final inspection and testing**  
Sight records of tensile testing of final envelope for at least 3 sample  
sizes - observe if possible

↓  
DH Records  
↓  
See QMS

→ check in Service History Record.

When is the calibration of the Brookfield viscometer performed?

~~See QMS~~  
~~See QMS~~

Which standards are used to calibrate the viscometer?

Once a year by Cofrac accredited lab  
- they also use ref. standards (non-new)  
which they check calibration of Brookfields  
at reg. intervals during year - usually  
each week.

<p>How often is the cutting press inspected and or maintained?</p>	<p>- HS checked off each day <del>for</del> when in use. The operator checks it when cutting (they do dummy dumbbells 1st on spare bits of the silicone plates)</p>
<p>Which <sup>what is</sup> mechanical tests are more likely to result in non conforming product?</p> <p>Sight records of non-conforming product for 1 failure (retest)</p> <p>For 2 failures (reject)</p>	<p>- gluing the patch in outer ring - ie. when press is used to press patch down</p> <p>↳ have recently changed how this is done</p> <p>} See Lot 21503 Rep 021/03 (QMS audit)</p> <p>See 4-13 p. 39 back of.</p>



**Complaint file re adverse events**

What is the incidence of tearing, rupture, fracture, leaking, holes?  
(Have mechanical properties been reviewed as a means to minimise recurrence?)

↓  
Yes - try to check these when they can - there's a dedicated return room next to the warehouse

Is any attempt made to get back any explanted ruptured implants for analysis?

↓  
Yes - but depends on surgeons

- All below limits set by man. (< 0.05%) -  
Complaints dept deals to this

- main complaint is rupture

- when they receive a saline one back they fill it with air to find the holes, get ones checked under microscope + do mech. tests when they can identify high rate of rupture samples &

- keep stats & a bimonthly report & current stats + rolling stats is sent to Quality Meetings

had identified previously (~2000) that textured saline implants had a higher incidence of microholes. Worked out it was due to texturing patterns / control. The CAR was dealt with by determining what prob. was, fixing it (changed SOP procedure + training staff - imp. plan compared samples from new batches to old