EAGLE ENGINEERING (TELFORD) LTD.

Unit D3
Haybrook Industrial Estate
Halesfield 9
Telford
TF7 4QW

Telephone: +44 (0) 1952 586478
Fax: +44 (0) 1952 586252
email: info@platingbarrels.com
www.platingbarrels.com

Barrel damage and abrasion deterioration

The two digital images below are the inside views of separate barrels fitted to a double rack system at a major German company. Our UHMW EAGLE barrel (image 2) was installed alongside a competitors (image 1)on exactly the same day and have been subject to precisely identical work conditions i.e. work type, load, volume, weight and temperature. The test results are clear to see.

Image one: Competitor barrel after 6 months
Barrel material is cold forming (creep)
Creep is the tendency of material to deform permanently under the influence of mechanical stress, this results from load, weight, stress and temperature. As can be seen the surface of the material is also breaking-up, the bore hole perforations are no longer circular and will reduce in size and eventually close. The effectiveness of the barrel drops substantially, losing solution transfer efficiency and chemistry carry-over increasing.

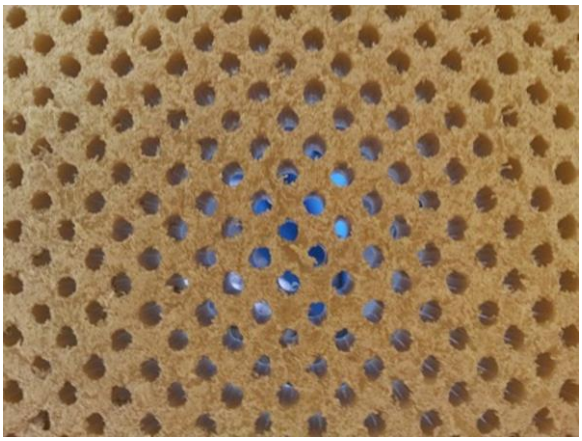

Image two: Eagle premium grade Ultra High Molecular Weight Polyethylene (U.H.M.W PE1000) barrel after 6 months
Bore hole perforations are still perfect without damage or deterioration.
We have barrels in operation at a client's facility electro-plating various types of fasteners, after 14 years of service on a 24 hour x 6 day a week cycle time carrying 150Kg per load, these barrels are still working strong. Remarkably each individual barrel has now plated an unbelievable 10,000 metric tonnes.