

HLWYM HEmails

From: Darrell Dunn [ddunn@cnwra.swri.edu]
Sent: Friday, September 10, 2004 12:35 PM
To: 'dgute@cnwra.swri.edu'; Aladar Csontos; Xihua He
Subject: RE: A. Csontos presentation w/FAD

The extra low interstitial (ELI) grades have improved mechanical properties. In addition to fracture toughness, the fatigue strength is also better. Typically titanium orthopedic implants use the the ELI grades. There is some good work from the late 50s and 60s that shows the effect of interstitial elements on the mechanical properties of titanium alloys.

-----Original Message-----

From: Doug Gute [mailto:dgute@cnwra.swri.edu]
Sent: Friday, September 10, 2004 10:04 AM
To: Darrell Dunn; Aladar Csontos; Xihua He
Subject: FW: A. Csontos presentation w/FAD

FYI

-----Original Message-----

From: George Weilbacher [mailto:gweilbacher@swri.edu]
Sent: Friday, September 10, 2004 9:25 AM
To: dgute@cnwra.swri.edu
Subject: RE: A. Csontos presentation w/FAD

Doug,

Thanks. As you work through your titanium issues one reference I found very useful is the ASM Titanium Alloys Material Properties Handbook. It has a very large section on 6-4 alloys. One figure I find interesting is the superior fracture toughness of 6-4 ELI over standard 6-4 which can be as high as $40\text{MPa}\cdot(\text{m}^{1/2})$.

George

-----Original Message-----

From: Doug Gute [mailto:dgute@cnwra.swri.edu]
Sent: Friday, September 10, 2004 8:54 AM
To: George W Weilbacher
Subject: FW: A. Csontos presentation w/FAD

FYI

-----Original Message-----

From: Darrell Dunn [mailto:ddunn@cnwra.swri.edu]
Sent: Thursday, September 09, 2004 4:08 PM
To: Douglas Gute
Subject: A. Csontos presentation w/FAD

Attached

<<...>>

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Hearing Identifier: HLW_YuccaMountain_Hold_EX
Email Number: 1578

Mail Envelope Properties (006701c49754\$1f1eb650\$13c8a281)

Subject: RE: A. Csontos presentation w/FAD
Sent Date: 9/10/2004 12:35:02 PM
Received Date: 9/10/2004 12:34:28 PM
From: Darrell Dunn

Created By: ddunn@cnwra.swri.edu

Recipients:
"dgute@cnwra.swri.edu" <dgute@cnwra.swri.edu>
Tracking Status: None
"Aladar Csontos" <Aladar.Csontos@nrc.gov>
Tracking Status: None
"Xihua He" <xhe@cnwra.swri.edu>
Tracking Status: None

Post Office: STURM

Files	Size	Date & Time
MESSAGE	1747	9/10/2004 12:34:28 PM

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received: