

FSAE Cost Software Bug Work Arounds

Please try these techniques to address
the software bugs

26-Jan-2010

Materials												Part Total:		Sub Total:		Double Click on Material to Zoom Part Details	
Materials	Use	UnitCost	Quantity	Size1	Unit1	Size2	Unit2	Area Name	Area	Len1	Density	SubTotal					
		\$6.70											\$6.70	\$6.70			
Fitting/H.P./Male Inverted Flare/90	Z	\$15.00	1	0 mm		0				0	0	0.00E+00	\$0.00				
Fitting/H.P./Male Pipe//Brass/	Z	\$6.70	1	10 mm		0							\$6.70				
*																	

Materials												Part Total:		Sub Total:		Double Click on Material to Zoom Part Details	
Materials	Use	UnitCost	Quantity	Size1	Unit1	Size2	Unit2	Area Name	Area	Len1	Density	SubTotal					
		\$21.70											\$21.70	\$21.70			
Fitting/H.P./Male Inverted Flare/90	Z	\$15.00	1	10 mm		0				0	0		\$15.00				
Fitting/H.P./Male Pipe//Brass/	Z	\$6.70	1	10 mm		0							\$6.70				
*																	

Materials using formulas don't update

If you add a material that uses a formula to calculate cost, such as plumbing parts, sometimes the system populates the density field with a number (even zero). The system uses the density field to decide if a material is a 'raw material'. If you highlight the density field and hit the delete key, removing the value, the VarFormula should then be used to calculate the cost of the item correctly.

Material	Category	Table Pric	Unit
Aluminum Metal Matrix Composite (per kg)	Raw Material (per kg)	\$ 33.00	kg
Aluminum, Normal (per kg)	Raw Material (per kg)	\$ 4.20	kg
Aluminum, Premium (per kg)	Raw Material (per kg)	\$ 4.20	kg
Brass (per kg)	Raw Material (per kg)	\$ 2.20	kg
Bronze (per kg)	Raw Material (per kg)	\$ 2.20	kg
Copper (per kg)	Raw Material (per kg)	\$ 2.20	kg
Foam, Expanding, Non-Structural (per kg)	Raw Material (per kg)	\$ 15.00	kg
Iron (per kg)	Raw Material (per kg)	\$ 1.00	kg
Magnesium (per kg)	Raw Material (per kg)	\$ 6.00	kg
Nickel (per kg)	Raw Material (per kg)	\$ 2.20	kg
Plastic, ABS (per kg)	Raw Material (per kg)	\$ 3.30	kg
Plastic, Acetal (per kg)	Raw Material (per kg)	\$ 3.30	kg
Plastic, Acrylic (per kg)	Raw Material (per kg)	\$ 3.30	kg
Plastic, Flouropolymers (per kg)	Raw Material (per kg)	\$ 3.30	kg
Plastic, Garolite (per kg)	Raw Material (per kg)	\$ 3.30	kg
Plastic, Nylon (per kg)	Raw Material (per kg)	\$ 3.30	kg
Plastic, PEEK (per kg)	Raw Material (per kg)	\$ 3.30	kg
Plastic, Polycarbonate (per kg)	Raw Material (per kg)	\$ 3.30	kg
Plastic, Polyethelene (per kg)	Raw Material (per kg)	\$ 3.30	kg
Plastic, Polyoxymethylene (POM) (per kg)	Raw Material (per kg)	\$ 3.30	kg
Plastic, Polypropolene (per kg)	Raw Material (per kg)	\$ 3.30	kg
Plastic, PVC (per kg)	Raw Material (per kg)	\$ 3.30	kg
Rubber (per kg)	Raw Material (per kg)	\$ 3.30	kg
Steel, Alloy (per kg)	Raw Material (per kg)	\$ 2.25	kg
Steel, Mild (per kg)	Raw Material (per kg)	\$ 2.25	kg
Steel, Stainless (per kg)	Raw Material (per kg)	\$ 2.25	kg
Titanium (per kg)	Raw Material (per kg)	\$ 22.00	kg

Raw Materials Don't Update when you input area, length and density

Use the new materials that have been entered. They end with (per kg). Simply type the mass of the raw material and use the comments field to explain the size of the stock. So there are now two options:

- 1) 'Raw Materials' use area, length, density to convert size to cost
- 2) 'Raw materials (per kg)' use mass directly to calculate cost

As added after table or browser

Fasteners										Double Click on Fastener to Zoom Part Details	
ItemOrder	Fastener	Use	UnitCos	Quantity	Subtotal	Size1	Unit1	Size2	Unit2		
	Nut, Grade NAS 12-Point	None	\$0.00	1		0 mm					
*											

Select fastener from drop down to reload

Fasteners										Double Click on Fastener to Zoom Part Details	
ItemOrder	Fastener	Use	UnitCos	Quantity	Subtotal	Size1	Unit1	Size2	Unit2		
	Nut, Grade NAS 12-Point	None	\$0.00	1		0 mm					
*											

Fastener dropdown menu items:

- Nut, Grade NAS 12-Point
- Bolt, Grade AN
- Nut, Custom Design, Student Made
- Bolt, Grade NAS 12-Point
- Washer, Grade 12.9
- Bolt, Grade 10.9 (SAE 8)
- Retaining Ring, External
- Hose Clamp, V-Band Quick Release
- Bolt, Grade 8.8 (SAE 5)
- Steel Loop Straps, Rubber-Cushioned
- Hose Clamp, Single Wire
- Hose Clamp, Miniature Bolt
- Stud, Grade 8.8 (SAE 5)
- Bolt, Grade 6.8 (SAE 3) and < Metric 8.8
- Bolt, Grade 12.9
- Nutsert (J-Nut)

Tooling										Double Click on Tooling to Zoom Part Details	
ItemOrder	Unit	UnitCost	Quantity	PVF	FractionIncluded	SubTot					
		\$0.00	1	1	1						
*											

Form reloads fastener and cost calculates correctly (make sure you enter Size1 and Size2)

Fasteners										Double Click on Fastener to Zoom Part Details	
ItemOrder	Fastener	Use	UnitCost	Quantity	Subtotal	Size1	Unit1	Size2	Unit2		
	Nut, Grade NAS 12-Point	None		1	\$1.49	8 mm		20			
*											

Fastener Add Issue

When adding fasteners using either the Fastener Browser or Fastener Table they often are present with a \$0.00 unit cost and no subtotal will calculate. Highlight the Fastener and select it from the drop down. This forces a recalculate. In our testing the fastener cost will then correctly update.




Fasteners											<i>Double Click on Fastener to Zoom Part Details</i>
ItemOrder	Fastener	Use	UnitCost	Quantity	Subtotal	Size1	Unit1	Size2	Unit2		
10	Retaining Ring, Spiral	None		1	\$0.04	12 mm			mm		
20	Nut, Grade NAS 6-Poir	None		1	\$0.33	5 mm		20			
*											

Useful Hint: Change Item Order

Use numbers in the Item Order field to adjust the display order on screen and in the printed reports.

Fasteners *Double Click on Fastener to Zoom Part Details*

ItemOrder	Fastener	Use	UnitCost	Quantity	Subtotal	Size1	Unit1	Size2	Unit2
	Retaining Ring, Spiral	None		1			mm		mm
*									



Useful Hint: Resize Columns

Highlight cells and double click the vertical line separating them to automatically resize columns to fit the text they contain.