



## Datum Alloys Six Sigma Data as at Nov 2011 (FMS)

Mulbury Six Sigma		The calculator		Six Sigma Calculator		Freeware X January 2003 ?	
Front Cover							
Six Sigma Calculator V3.0 (August 2002)							
Sigma metric		Number of items in <u>sample</u>		<input type="text" value="14865"/>	should be at least 30 for a sample or 10 for a census		
Calculator		Total <u>population</u> from which sample taken		<input type="text" value="14865"/>			
Process shift		<u>Period</u> of sample		<input type="text" value="460"/>	working days mon-fri ▾		
Sample sizes		Total number of <u>defects</u> found		<input type="text" value="18"/>	this method is an approximation when the defect count is less than 5		
Sigma table		Number of <u>opportunities</u> for defects per item		<input type="text" value="5"/>			
Other metrics		<u>Cost per defect</u> (optional)		<input type="text" value="50"/>			
		Anticipated long term <u>shift</u>		<input type="text" value="1.5"/>	worst case short-long term process shift		<input type="text" value="1.5"/>
		<u>Data collected</u> over the		very long term ▾			
		<input type="button" value="Calculate"/>		<input type="button" value="Reset Form"/>			
Results		<b>Current Situation</b>		<b>90% Defect Reduction</b>			
		Total opportunities		<input type="text" value="74325"/>	reducing defects by nine-tenths is often close to a general one-sigma improvement		
		Total defects		<input type="text" value="18"/>	<input type="text" value="2"/>		
		Defects Per Million Opportunities		<input type="text" value="242"/>	<input type="text" value="24"/>		
		Sigma Value - <u>long term</u> (performance)		<input type="text" value="3.49"/>	applied LT shift <input type="text" value="0"/>		<input type="text" value="4.06"/>
		Sigma Value - <u>short term</u> (capability)		<input type="text" value="4.99"/>	applied ST shift <input type="text" value="1.5"/>		<input type="text" value="5.56"/>
		Defects per year		<input type="text" value="10"/>	<input type="text" value="1"/>		
		Cost of defects per year		<input type="text" value="500"/>	<input type="text" value="50"/>		
		Annual defect cost saving		<input type="text" value="450"/>			