



Coolant Comparison Example

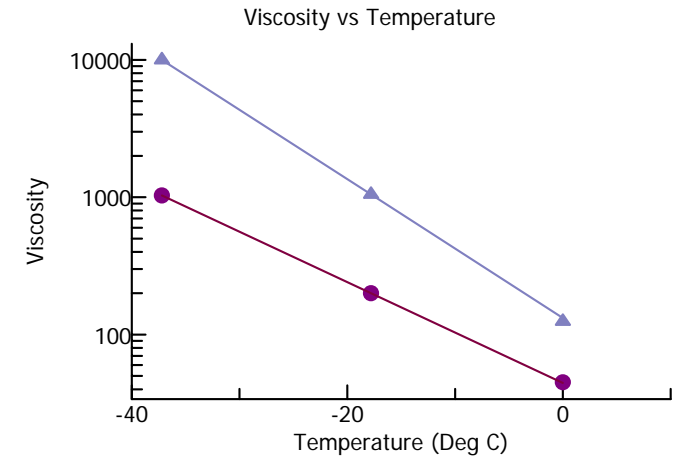
Equation:

Data:

$$y = Ax + B$$

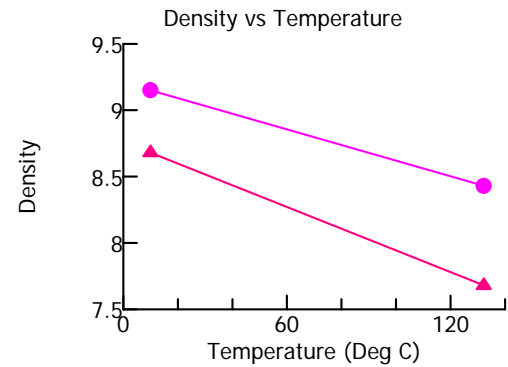
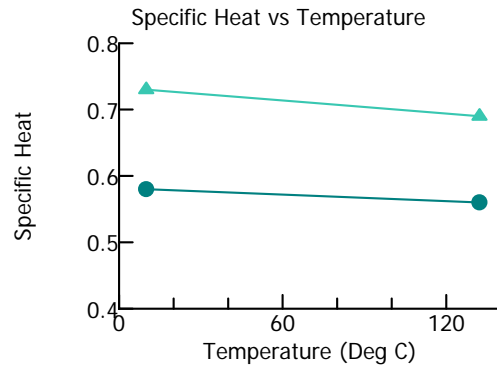
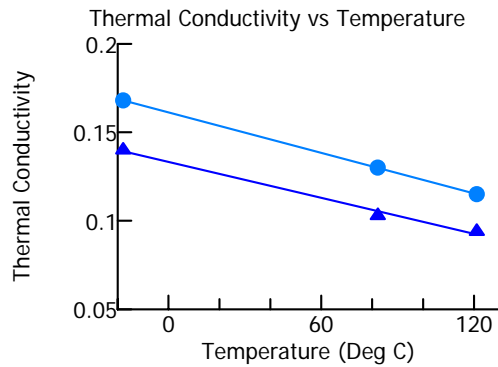
$$y = A * \exp(B * x)$$

Temperature (Deg C)	Viscosity		Thermal Conductivity		Specific Heat		Density	
	Coolant A	Coolant B	Coolant A	Coolant B	Coolant A	Coolant B	Coolant A	Coolant B
-37.2	10000	1030						
-17.8	1050	200	0.14	0.168				
0	125	45						
10					0.58	0.73	8.68	9.15
82.2			0.103	0.13				
121.1			0.094	0.115				
132.2					0.56	0.69	7.68	8.43



Description:

In this example four different graphs have been plotted using an exponential model and the linear model. The graphs can be used to compare two different coolants as each graph has two separate plots to represent each of the coolants. The results of the analysis have been created and displayed with formatting.



Viscosity vs Temperature Parameters				Thermal Conductivity vs Temperature Parameters			Specific Heat vs Temperature Parameters			Density vs Temperature Parameters			
Name	Value	Confidence Intervals	Standard Error	Value	Confidence Intervals	Standard Error	Value	Confidence Intervals	Standard Error	Value	Confidence Intervals	Standard Error	
Coolant A	A	132.3400155	22.60642924	1.779185577	-3E-04	0.000385	3.03E-05	-2E-04	#N/A	#N/A	-0.01	#N/A	#N/A
Coolant A	B	-0.1162628	0.004611718	0.00362954	0.1333	0.032796	0.002581	0.582	#N/A	#N/A	8.762	#N/A	#N/A
Coolant B	A	44.54018149	2.503253392	0.197012641	-4E-04	1.56E-05	1.23E-06	-3E-04	#N/A	#N/A	-0.01	#N/A	#N/A
Coolant B	B	-0.08443292	0.001533851	0.000120718	0.1612	0.001326	0.000104	0.733	#N/A	#N/A	9.209	#N/A	#N/A
Viscosity vs Temperature Fit Statistics				Thermal Conductivity vs Temperature Fit Statistics			Specific Heat vs Temperature Fit Statistics			Density vs Temperature Fit Statistics			
Name	Coolant A	Coolant B	Name	Coolant A	Coolant B	Name	Coolant A	Coolant B	Name	Coolant A	Coolant B		
Chi²	57.07132903	0.250247044	Chi²	9.44E-06	1.54E-08	Chi²	4.9304E-32	0	Chi²	3.9443EE-30	0		
F-Test	1.000709456	1.000426585	F-Test	1.008006	1.00001	F-Test	1	1	F-Test	1	1		
F-Test Significance	0.999774217	0.999864207	F-Test Significance	0.997462	0.99997	F-Test Significance	#N/A	#N/A	F-Test Significance	#N/A	#N/A		
T-Test	0.677560934	-0.486580501	T-Test	0	0	T-Test	#N/A	#N/A	T-Test	#N/A	#N/A		
T-Test Significance	0.620888527	0.711703877	T-Test Significance	1	1	T-Test Significance	0	0	T-Test Significance	0	0		
Iterations	28	17	Iterations	0	0	Iterations	4	0	Iterations	3	0		
DOF	3	3	DOF	3	3	DOF	2	2	DOF	2	2		

