

**Experiment Number:** 05083-01  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** Rat/F 344/N

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** Wollastonite calcium silicates  
**CAS Number:** 13983-17-0

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 12:31:04  
**First Dose M/F:** NA / NA  
**Lab:** NORTHROP

<b>C Number:</b>	C55470B
<b>Lock Date:</b>	Not Entered.
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Male
<b>PWG Approval Date</b>	NONE

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Male RAT  
FIRST TERMINAL SACRIFICE AT 787 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL													
TOTAL 78			UNCENSORED DEATHS 59				CENSORED DEATHS 12				TERMINAL 7		
UNCENSORED DEATH DAYS													
464	466	499	516	526	534	549	551	565	568	582	586	600	600
600	610	614	625	634	635	653	653	656	673	674	681	681	682
688	688	698	705	708	710	712	716	722	724	726	726	726	729
729	730	732	737	737	738	738	738	738	743	743	745	745	754
754	761	773											
CENSORED DEATH DAYS													
93	93	93	93	93	93	373	373	373	373	373	373		
DOSE = 10 MG/M3 24 MO													
TOTAL 78			UNCENSORED DEATHS 50				CENSORED DEATHS 16				TERMINAL 12		
UNCENSORED DEATH DAYS													
223	431	479	479	515	527	561	566	569	574	603	608	612	617
623	623	627	627	628	646	649	649	649	655	655	668	669	669
681	682	683	700	703	715	716	724	726	726	736	737	737	737
737	737	737	737	737	751	764	765						
CENSORED DEATH DAYS													
94	94	94	94	94	94	374	374	374	374	374	374	422	422
422	422												
DOSE = 10 MG/M3 12 MO													
TOTAL 78			UNCENSORED DEATHS 55				CENSORED DEATHS 12				TERMINAL 11		
UNCENSORED DEATH DAYS													
361	421	504	514	561	577	586	586	591	607	621	625	627	634
641	652	668	674	683	690	690	691	691	696	712	716	722	723
724	726	729	733	737	737	738	738	738	738	739	739	743	743
745	745	745	747	747	754	754	754	766	767	771	780	781	
CENSORED DEATH DAYS													
93	93	93	93	93	93	373	373	373	373	373	373		

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

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INDIVIDUAL SURVIVAL TIMES (DAYS)

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DOSE = 10 MG/M3ASBESTOS													
TOTAL 78			UNCENSORED DEATHS 52				CENSORED DEATHS 12			TERMINAL 13			
UNCENSORED DEATH DAYS													
387	387	449	477	565	565	565	583	596	596	600	604	607	607
610	628	628	635	646	649	649	656	656	659	661	682	691	701
705	712	716	719	719	726	729	730	730	732	737	737	738	738
738	738	738	739	743	743	747	747	754	781				
CENSORED DEATH DAYS													
94	94	94	94	94	94	374	374	374	374	374	374		

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FIRST TERMINAL SACRIFICE AT 787 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	787(A)
CONTROL	100.0	100.0	100.0	100.0	100.0	97.0	90.9	77.3	65.2	10.6
10 MG/M3 24 MO	100.0	100.0	98.6	98.6	98.6	93.8	90.5	82.4	59.8	19.4
10 MG/M3 12 MO	100.0	100.0	100.0	98.6	97.1	97.1	94.1	86.5	75.9	16.7
10 MG/M3ASBESTOS	100.0	100.0	100.0	100.0	97.0	93.9	93.9	81.8	62.1	21.2

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SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	10 MG/M3 24 MO	10 MG/M3 12 MO	10 MG/M3 ASBESTOS
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	10.6%	19.4%	16.7%	21.2%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.122N	P=0.569N	P=0.063N	P=0.230N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	665.9 (10.7)	647.4 (14.3)	684.0 (12.0)	661.1 (12.7)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	610.2 (21.3)	593.7 (22.3)	629.2 (22.3)	615.8 (22.3)

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