

Glass Breaking Strength

A salsa company is considering using a new container for its salsa. According to their research, the glass containers for the salsa should have a strength between 185 and 325 psi. A vendor has provided the following data for evaluation. Is there evidence that the process is in control? Is it capable of producing jars with a breaking strength between 185 and 325 psi?

Sample	Data					
1	265	205	263	307	220	264.06
2	268	260	234	299	215	
3	197	286	274	243	231	
4	267	281	265	214	318	
5	346	317	242	258	276	
6	300	208	187	264	271	
7	280	242	260	321	228	
8	250	299	258	267	293	
9	265	254	281	294	223	
10	260	308	235	283	277	
11	200	235	246	328	296	
12	276	264	269	235	290	
13	221	176	248	263	231	
14	334	280	265	272	283	
15	265	262	271	245	301	
16	280	274	253	287	258	
17	261	248	260	274	337	
18	250	278	254	274	275	
19	278	250	265	270	298	
20	257	210	280	269	251	

Is the process capable of producing jars with a breaking strength between 185 and 325 psi?

Mid Point 255
StdDev 32.01793

Cpl 0.82308
Cpu 0.634436
Cpk 0.634436