



STRAIN READINGS AND CALCULATED STRESSES FOR AE PISTON SKIRT
FOR THE COMPLETE STUD BOSS ROSETTES AT 1600 PSIG WITH A
CONVENTIONAL CROWN
(all strain values are in $\mu\text{in/in}$)

	C	D	E	F	H
ϵ_z	-1740	-1668	-1722	-1605	-1583
ϵ_θ	270	366	304	270	246
ϵ_{45}	-732	-787	-815	-602	-632
ϵ_I	270	375	310	272	247
ϵ_{II}	-1740	-1677	-1728	-1607	-1584
σ_{II} , ksi	-6.5	-3.3	-5.4	-5.5	-5.9
σ_{III} , ksi	-43.0	-40.6	-42.4	-39.6	-39.24

The reported values are for 1600 psig, which differs slightly from the effective firing pressure of 1627 psig. This 1.7% difference in pressure is considered to be negligible.

8412140389 840910
PDR ADDCK 05000322
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