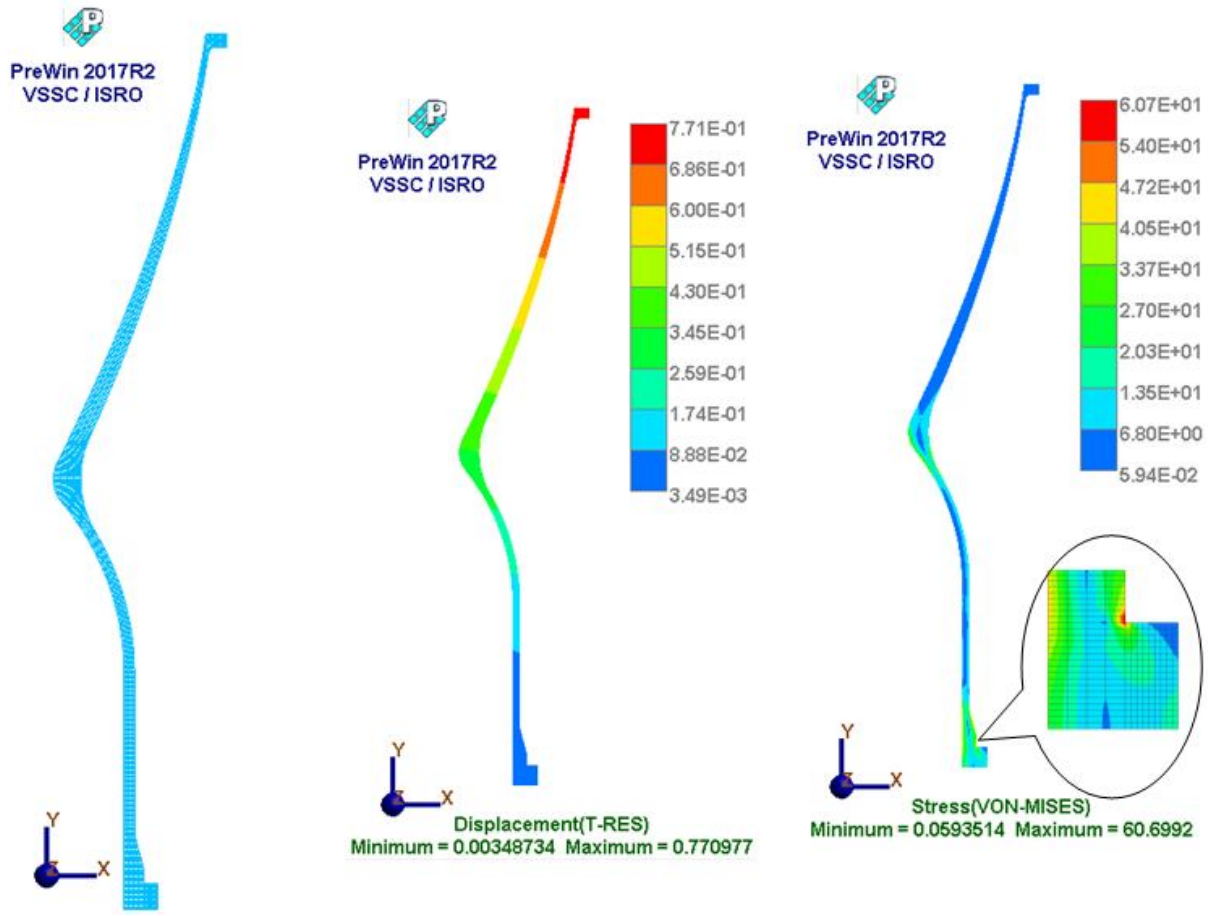
Thermo-structural analysis of a nozzle



Material property :

Temp (*K*)	300	477.6	699.8	1033	1144	1255	1366	1477
E (*MPa*)	92355	92355	92355	92355	92355	94470	86720	65565
α (/℃)	6.84E-06	7.02E-06	7.20E-06	7.38E-06	7.56E-06	7.74E-06	7.92E-06	8.10E-06

Element types : Axisymmetric

Finite element statistics

Number of elements	Number of Nodes	Degrees of freedom
2526	8767	17507

	FEAST^{SMT}	ANSYS
Displacement (*mm*)	0.77	0.77
Stress (von-Mises) (*MPa*)	60.69	74.88