

Class	CES range	Typical machines / plants
F	CES \geq 0.80	<p>Structural:</p> <ul style="list-style-type: none">• Structural instability; imminent cracking / rupture• Severe seismic damage with loss of bearing capacity <p>Thermal & Refractory:</p> <ul style="list-style-type: none">• Advanced thermal fatigue collapse• Severe refractory spalling areas• Converter slag line end-of-campaign• Turbine plasma hot spots• Rotary kiln sintering peak zone• Oxygen lance refractory hot spots <p>Operational:</p> <ul style="list-style-type: none">• Immediate stop – urgent engineering review