

HEAT SHIELD/ELEMENT MATERIAL COMPATIBILITY

GRAPHITE:

AR	3000°C
CO	3000°C
HE	3000°C
N2	2200°C
CO2	900°C
NH3	2200°C
C3H8	3000°C
CH4	3000°C
F2	N/R
H8%-N92%	2200°C
H2	2700°C

TUNGSTEN:

AR	3000°C
CO	800°C
HE	3000°C
N2	2300°C
CO2	1200°C
NH3	1100°C
C3H8	900°C
CH4	900°C
F2	N/R
H8%-N92%	2300°C
H2	3000°C

MOLYBDENUM:

AR	1650°C
CO	1400°C
HE	1650°C
N2	1650°C
CO2	1200°C
NH3	1100°C
C3H8	1100°C
CH4	1100°C
F2	N/R
H8%-N92%	1650°C
H2	1650°C

TANTALUM:

AR	2800°C
CO	1000°C
HE	2800°C
N2	700°C
CO2	1250°C
NH3	400°C
C3H8	900°C
CH4	800°C
F2	N/R
H8%-N92%	700°C
H2	800°C

ARGON = AR
 ANHYDROUS AMMONIA = NH3
 CARBON DIOXIDE = CO2
 CARBON MONOXIDE = CO
 FLUORINE = F2

HYDROGEN / NITROGEN = H2 / N2
 HELIUM = HE
 METHANE = CH4
 NITROGEN = N2
 PROPANE = C3H8



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