

Figure 1

Element	#6-8741-CF ₄ /O ₂ (10/90)	#6-8742 – CF ₄ /O ₂ (30/70)
C	1.3	1.3
O	54.9	42.3
F	14.4	28.2
Y	29.4	28.2

Figure 2

Sample ID	Substrate	R _a [μm]	R _z [μm]	R _{max} [μm]	R _{pk} [μm]
#6-8741 CF ₄ /O ₂ (10/90)	<u>Alumina</u>	0.014	0.108	0.121	0.016
	Aluminium	0.036	0.338	0.541	0.052
	Silicon	0.013	0.097	0.104	0.015
#6-8742 CF ₄ /O ₂ (30/70)	<u>Alumina</u>	0.014	0.100	0.109	0.014
	Aluminium	0.035	0.314	0.397	0.040
	Silicon	0.014	0.109	0.127	0.017

Figure 3a

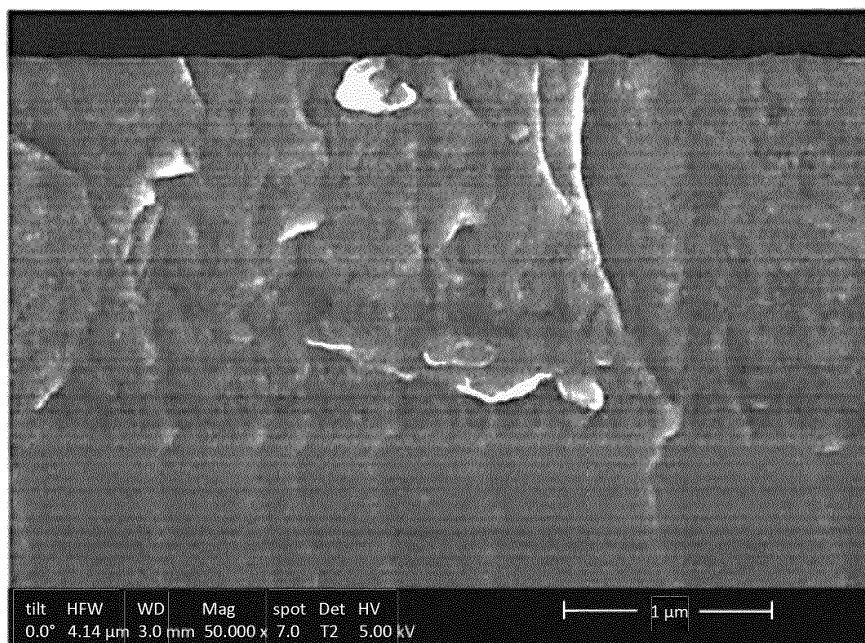


Figure 3b

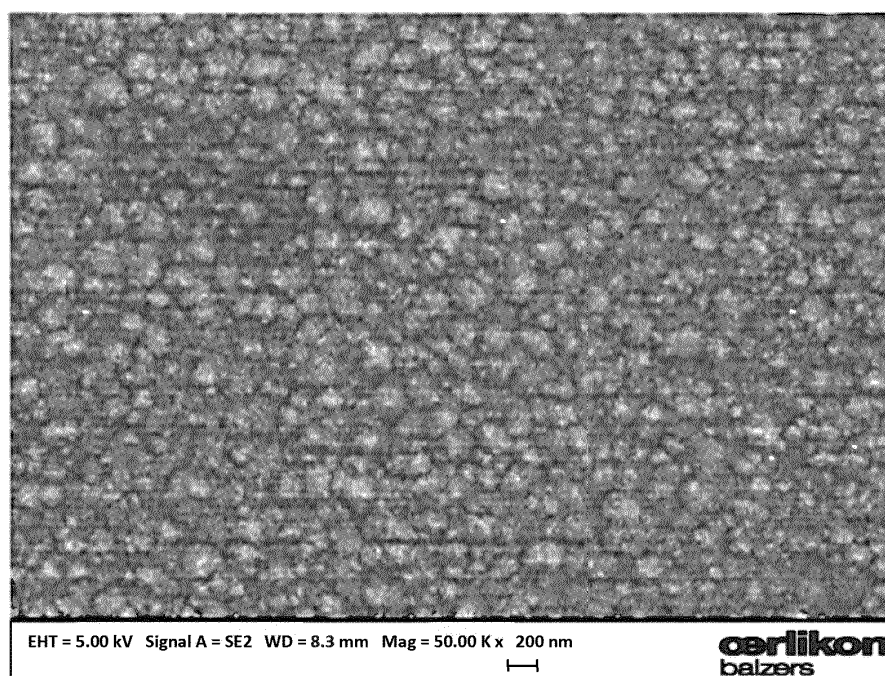


Figure 4

	PVD Y ₂ O ₃ (Ref)	#6-8741-CF ₄ /O ₂ (10/90)	#6-8742 - CF ₄ /O ₂ (30/70)
<u>Load [mN]</u>		5.0	5.0
<u>Indentation depth [nm]</u>		127	146
<u>Hardness [GPa]</u>	12.85 ± 0.47 [°]	13.17 ± 0.84	10.73 ± 0.26
<u>E-Modulus [GPa]</u>	145 ± 3.0 [°]	175.7 ± 11.4	136.0 ± 3.3