Based on Kajiya-Kay 1989

roughness = 0.1glossiness = (1/roughness)(7)

 $s_{\alpha} = \sqrt{(1 - ((\vec{\omega_i} \cdot T) * (\vec{\omega_i} \cdot T)))}$

 $\operatorname{spec} = ((s_{\alpha} \cdot \sqrt{(1 - ((\vec{\omega}_{o} \cdot T) \cdot (\vec{\omega}_{o} \cdot T)))) - ((\vec{\omega}_{i} \cdot T) \cdot (\vec{\omega}_{o} \cdot T)))^{\operatorname{glossiness}}$

 $f = \operatorname{spec}$

(8)

(9)

(10)