


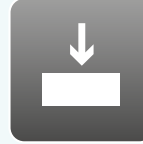

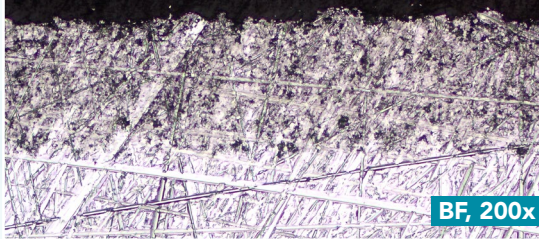
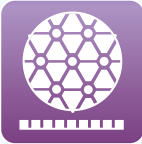


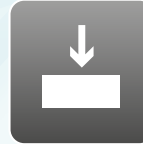

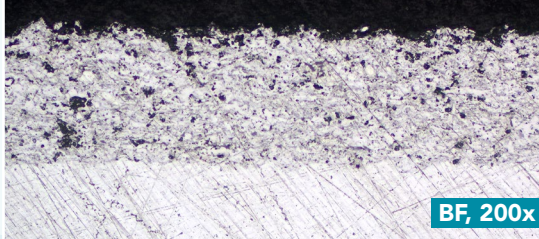





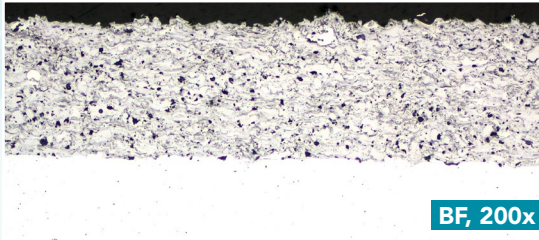





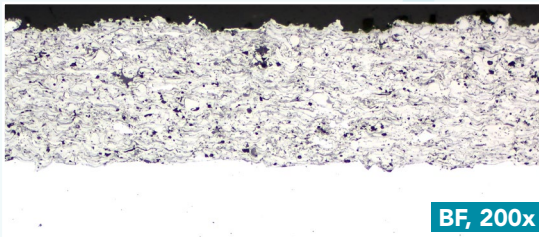


Aka-Brief #5 Metallic/Composite Thermal Spray Coated Parts

1						
	Piatto 220+	Water	300 rpm	30 N	Until plane	BF, 200x
2						
	Allegran 3	DiaUltra 6 µm	150 rpm	35 N	3:30 min	BF, 200x
3						
	Silk	DiaUltra 3 µm	150 rpm	30 N	2:30 min	BF, 200x
4						
	Chemal*	Colloidal Silica 50 nm Alkaline	150 rpm	15 N	1:00 min	BF, 200x

Times are stated for a 300 mm preparation system and forces for an individual 40 mm dia. sample.

On a 250 mm system the times should be increased by 30%, on a 200 mm system by 100%.

With larger samples the force should be increased, with smaller samples decreased.

The rotational speed of the head (sample holder or sample mover plate) used is 150 rpm.

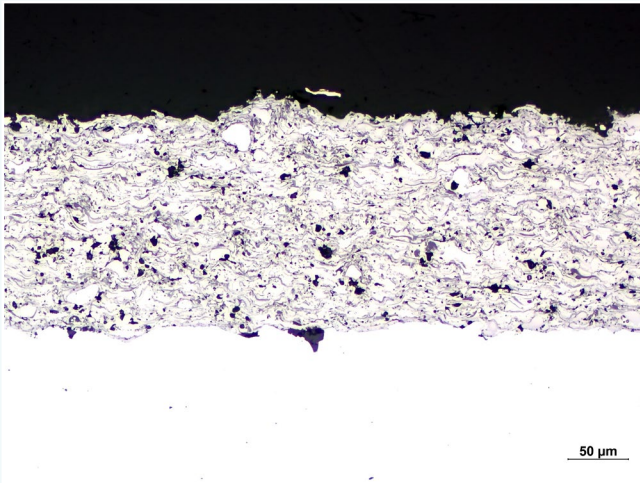
Time and force may vary depending on the equipment.

* Prior to oxide polishing the polishing cloth should be wetted with water until the holder touches the polishing cloth. For the last 10 seconds of the oxide polishing step, the polishing cloth should be flushed with water to clean both sample(s) and polishing cloth.

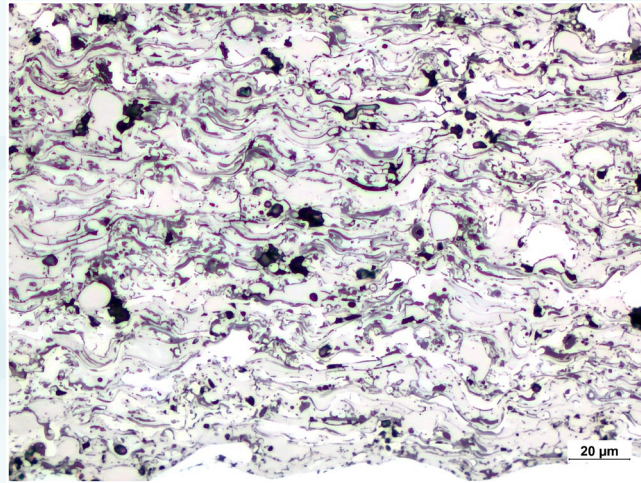


Aka-Brief #5 Metallic/Composite Thermal Spray Coated Parts

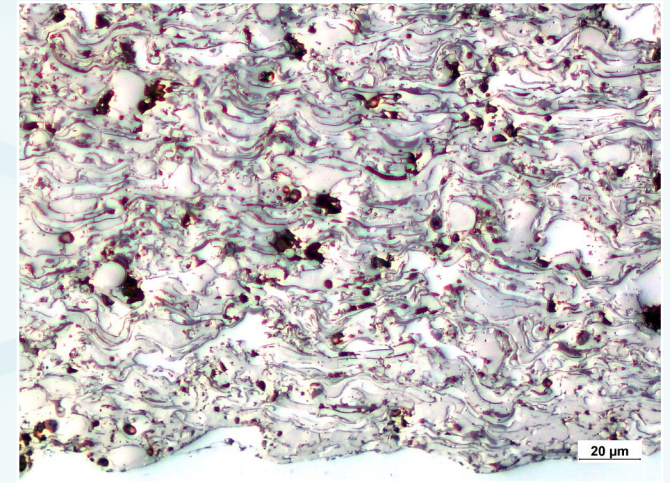
FINAL RESULT



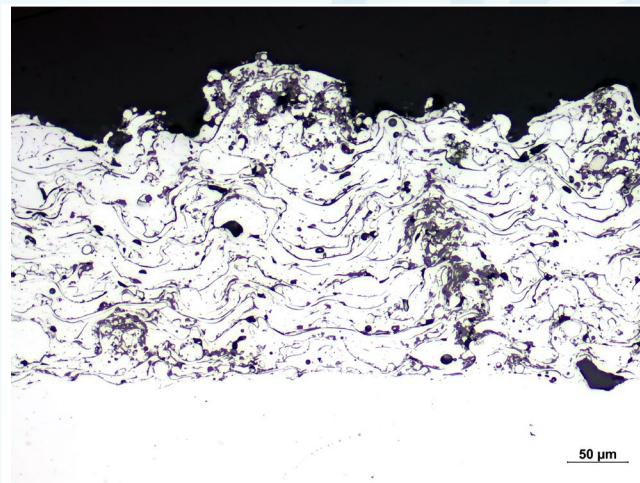
CrC/NiCr fine on stainless steel substrate, BF, 200x



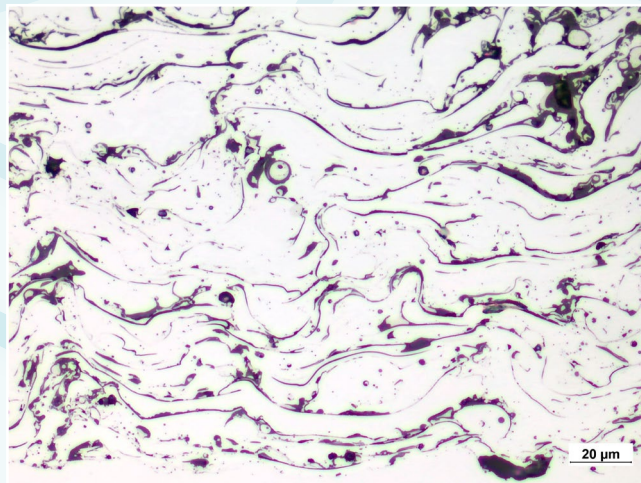
CrC/NiCr fine on stainless steel substrate, BF, 500x



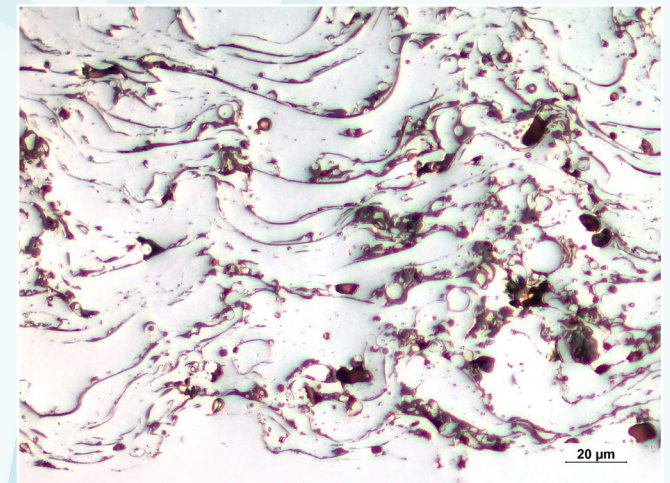
CrC/NiCr fine on stainless steel substrate, DIC, 500x



Cobalt alloy on stainless steel substrate, BF, 200x



Cobalt alloy on stainless steel substrate, BF, 500x



Cobalt alloy on stainless steel substrate, DIC, 500x