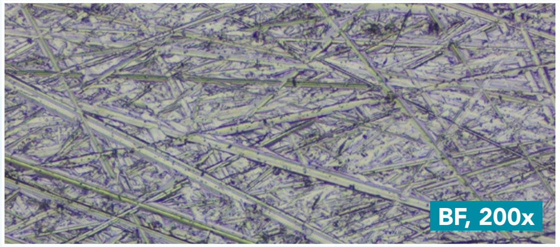
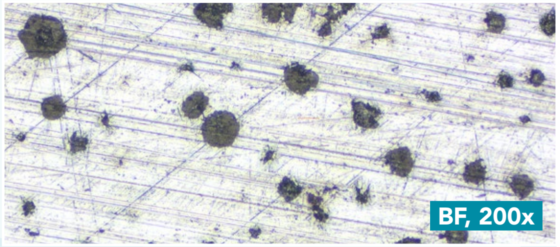
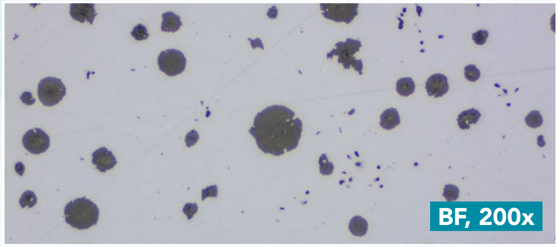
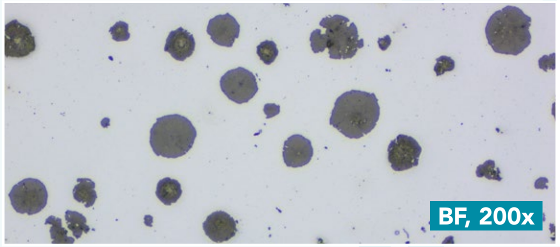
Aka-Brief #14 Cast Iron

AKASEL
THE SMARTER ALTERNATIVE

1	Piatto 220	Water	300 rpm	35 N	Until plane	 BF, 200x
2	Allegran 3	DiaUltra 9 µm	150 rpm	35 N	3:30 min	 BF, 200x
3 ***	Silk	DiaUltra 3 µm	150 rpm	35 N	2:30 min	 BF, 200x
4 * ***	Chemal	Colloidal Silica 50 nm Alkaline**	150 rpm	20 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.

Time and Force may vary depending on the equipment.

* Step 4 is optional.

** Oxide polishing gives a scratch free result but introduces some relief. To minimize relief, this step can be replaced by a final step using DiaUltra 1 µm on a Napal cloth.

*** For water-sensitive samples, only diamond polishing is recommended using water-free suspensions/lubricants for the 3 and 1 µm steps. The use of water should also be avoided for cleaning after those preparation steps.

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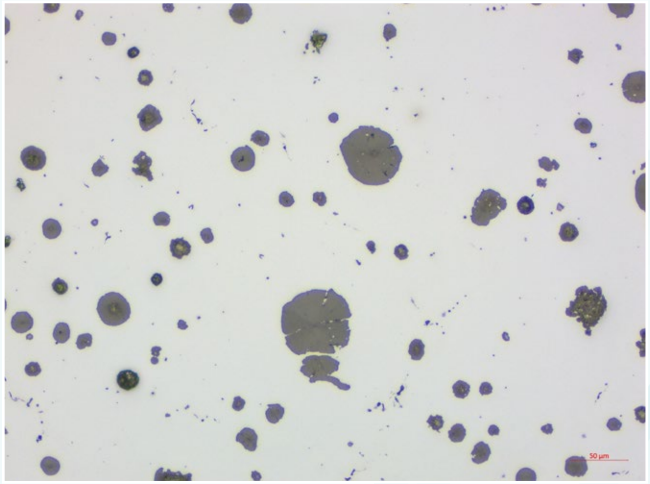
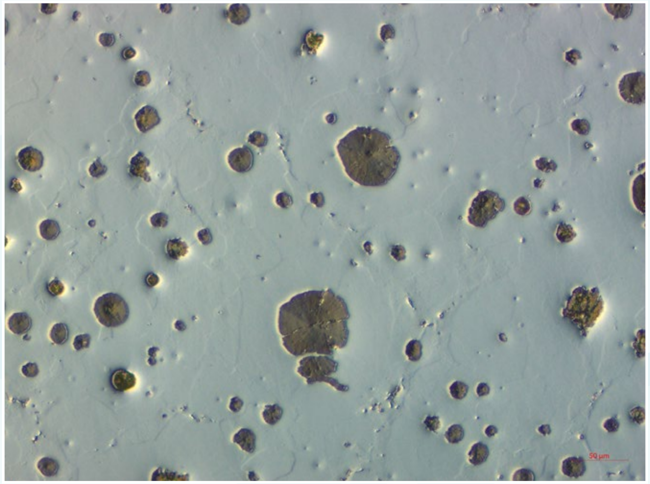
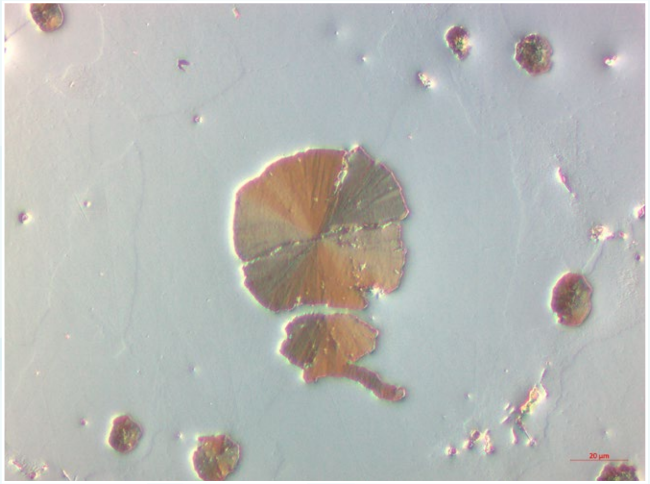
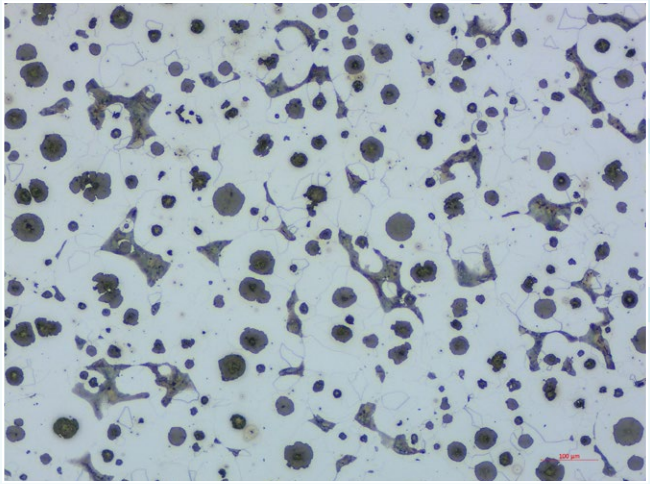
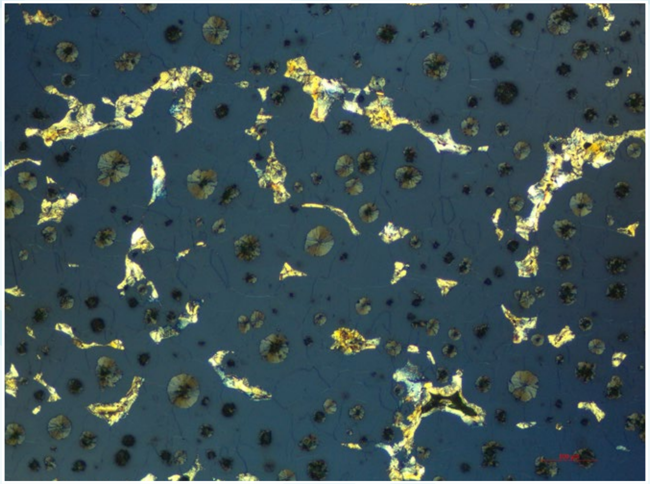
FINAL RESULT


BF, 200x


DIC, 200x


DIC, 500x


Etched with 3% Nital, BF, 200x


Etched with 3% Nital, POL, 200x

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