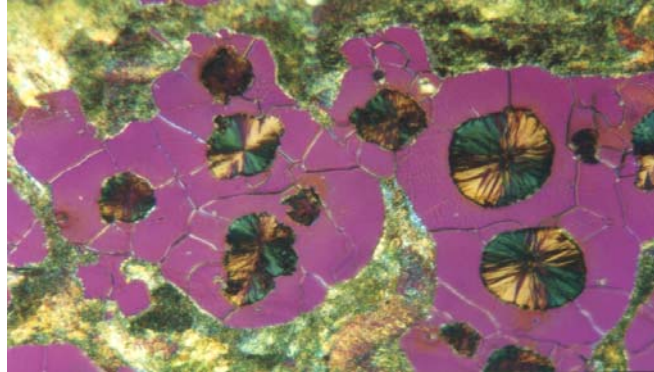


Material : Nodular Cast Iron, Ferritic + Pearlitic

Method No. : B05

Results

This type of cast iron has more toughness. Ferrite zones (violet) and perlite surround the nodular graphites. Polarized light illumination is recommended to analyze the graphites.



Ferritic-Pearlitic Nodular Cast Iron, Polarized light.
Magnification: 400X Etching: 2% Nital

Preparation Method:

Cutting: Abrasive Cut-off machine with Metlab RC-50+ Abrasive wheel

Mounting: Mounting Press with Phenolic Powder

Mechanical Preparation: FORCIPOL Grinding / Polishing Machine + FORCIMAT Automatic Specimen Mover.

Steps	Surface	Abrasive	Lubricant	Force per Sample, (N)/(PSI)	Time min.	Disc Speed, rpm	Relative Rotation
1	PIANO	YELLOW	Water	25/5	1	250	Contra
2	PIANO	BLUE	Water	25/5	1	300	Contra
3	Dac Cloth	3 μ Diamond Suspension	Blue Lube	15/3	4	150	Contra
4	Metlab Cloth	1 μ Diamond Suspension	Blue Lube	15/3	1	150	Contra

FOR MORE DETAILED INFORMATION PLEASE REFER TO METLAB PRICE LIST