

Nodularity and Ferrite Pearlite Evaluation as per ASTM A247

Date:	2026-Feb-18, 12:38:21 PM GMT-05:	Area (mic2): 268325	Mag.: 200x
User:		Calibration: 1.7699 $\mu\text{m}/\text{pixel}$	Units: Microns
Sample ID:		Nodularity by Count: 92.31	Graphite %: 13.62
# Fields: 1		Nodularity by Area: 98.17	Pearlite %: 13.41
Graphite main type (fixed): I		JIS G 5502 Nodularity: 91.28	Ferrite %: 72.97
Final Rating (area%):	98 % I, 2 %		Pores %: 0.00

All graphite:

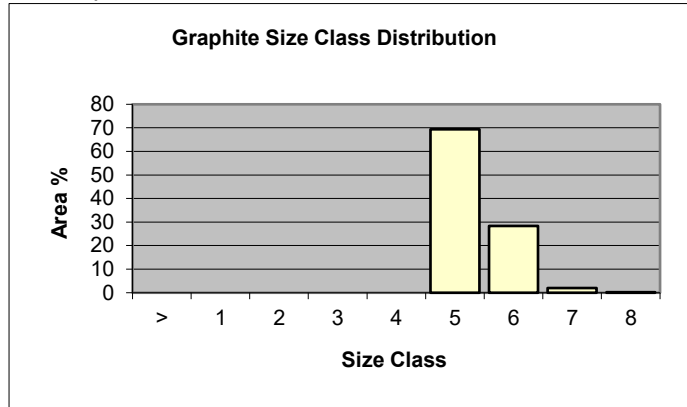
Range (mic.)	Size Class	Count	Area %
> 1280	>	0	0
640 - 1280	1	0	0
320 - 640	2	0	0
160 - 320	3	0	0
80 - 160	4	0	0
40 - 80	5	14	69
20 - 40	6	18	28
10 - 20	7	5	2
0 - 10	8	2	0

All graphite mean Length: 35.22 μm
 Corresponding Size Class: 6
 All graphite density: 145 1/mm
 Count of all graphites: 39

Nodules max. Length: 63.938 μm
 Corresponding Size Class: 5
 Nodules mean Length: 36.38 μm
 Corresponding Size Class: 6
 Nodules density: 134 1/mm
 Nodules count: 36

Other graphite main type: ? (manual)
 Other types mean Length: 21.31 μm
 Corresponding Size Class: 6
 Other types of graphite density: 11 1/mm
 Other types of graphite count: 3

All Graphites:



Nodules:

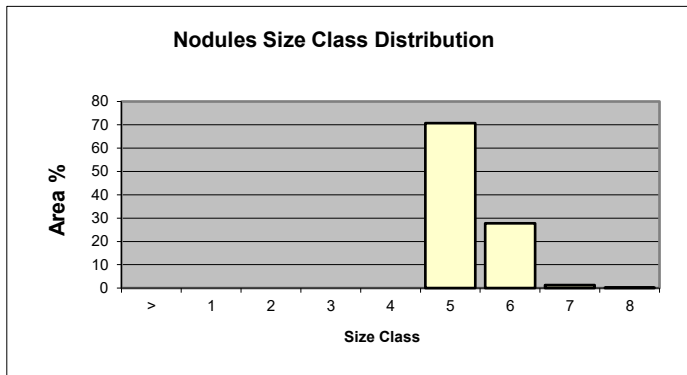


Figure 1: Typical field.

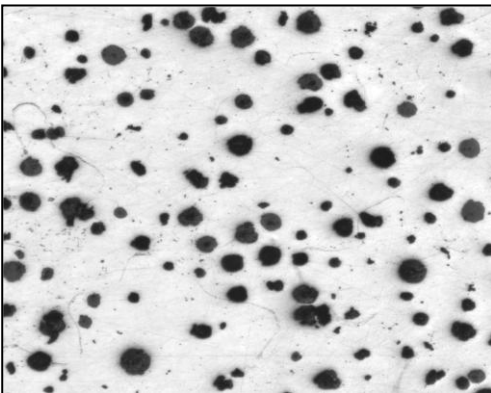
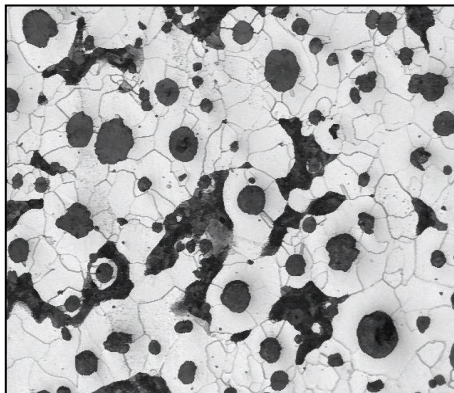


Figure 2: Typical etched field.



The current analysis has been added to the summary file.