



Grade 1005u-F

Quality, Service, and Consistency

Material Type: Natural Graphite Flake

Chemical Properties

Properties	Specification	Typical
Carbon: % min.	95.0	97.0
Ash: % max.	5.0	3.0

Physical Properties

Properties	Specification	Typical
D10: microns	As Reported	2.0
D50: microns	4-8	5.8
D90: microns	As Reported	9.3
Moisture: max. %	0.5	0.2

TDS.086 Rev.0

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Grade 1015u-F

Quality, Service, and Consistency

Material Type: Natural Graphite Flake

Chemical Properties

Properties	Specification	Typical
Carbon: % min.	95.0	95.8
Ash: % max.	5.0	4.2

Physical Properties

Properties	Specification	Typical
D10: microns	As Reported	7.0
D50: microns	10-22	15.0
D90: microns	As Reported	33.0
-200 US Mesh %	95 min.	99.8
-325 US mesh %	90 min.	93.5
Moisture: max. %	0.5	0.2

TDS.088 Rev.0

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Grade 1030u-F

Quality, Service, and Consistency

Material Type: Natural Graphite Flake

Chemical Properties

Properties	Specification	Typical
Carbon: % min.	95.0	95.8
Ash: % max.	5.0	4.2

Physical Properties

Properties	Specification	Typical
D10: microns	As Reported	8.0
D50: microns	14-30	17.0
D90: microns	As Reported	56.0
-200 US Mesh %	90 min.	97.0
-325 US mesh %	85 min.	91.0
Moisture: max. %	0.5	0.2

TDS.089 Rev.0

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Grade 1050-F

Quality, Service, and Consistency

Material Type: Natural Graphite Flake

Chemical Properties

Properties	Specification	Typical
Carbon: % min.	94.0	95.3
Ash: % max.	6.0	4.7

Physical Properties

Properties	Specification	Typical
+50 US Mesh %	80 min.	93
-50 US mesh %	10 max.	7
Moisture: max. %	0.5	0.2

TDS.090 Rev.3

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Grade 1020uP-F

Quality, Service, and Consistency

Material Type: Natural Graphite Flake

Chemical Properties

Properties	Specification	Typical
Carbon: % min.	99.9	99.9
Ash: % max.	0.1	0.1
Iron: ppm	<500	270

Physical Properties

Properties	Specification	Typical
D10: microns	5-15	7.0
D50: microns	15-25	18.0
D90: microns	20-30	24.0
Moisture: max. %	0.1	0.1
Tap Density: g/ml	0.9-1.2	1.0
Specific Area: m ² /g	5.0-8.5	7.2

TDS.103 Rev.3

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Grade 1100-F

Quality, Service, and Consistency

Material Type: Natural Graphite Flake

Chemical Properties

Properties	Specification	Typical
Carbon: % min.	94.0	95.3
Ash: % max.	6.0	4.7

Physical Properties

Properties	Specification	Typical
+100 US Mesh %	10 max.	6.8
-100 US Mesh %	90 min.	93.1
-325 US Mesh %	As Reported	22.6
Moisture: max. %	0.5	0.2

TDS.126 Rev.3

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Grade 1005uP-F

Quality, Service, and Consistency

Material Type: Natural Graphite Flake

Chemical Properties

Properties	Specification	Typical
Carbon: % min.	99.5	99.8
Ash: % max.	0.5	0.2

Physical Properties

Properties	Specification	Typical
D50: microns	5-8	5.4
Moisture: max. %	0.5	0.2

TDS.281 Rev.3

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Grade 1399-F

Quality, Service, and Consistency

Material Type: Natural Graphite Flake

Chemical Properties

Properties	Specification	Typical
Carbon: % min.	94.0 %	95.3 %
Ash: % max.	6.0 %	4.7 %

Physical Properties

Properties	Specification	Typical
+35 US Mesh %	1.0 max.	0.2
+50 US mesh %	As Reported	15.3
+80 US Mesh %	70 min.	73.1
+100 US Mesh %	As Reported	5.6
- 170 US Mesh %	10 max.	5.8
Moisture: max. %	0.5	0.2

TDS.302 Rev.3

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Grade 1025u-F

Quality, Service, and Consistency

Material Type: Natural Graphite Flake

Chemical Properties

Properties	Specification	Typical
Carbon: % min.	94.0	96.0
Ash: % max.	6.0	4.0

Physical Properties

Properties	Specification	Typical
D50: microns	15-30	21.0
-120 US Mesh %	90 min.	92.0
Moisture: max. %	0.5	0.2

TDS.309 Rev.0

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Grade 1050u-F

Quality, Service, and Consistency

Material Type: Natural Graphite Flake

Chemical Properties

Properties	Specification	Typical
Carbon: % min.	94.0	95.8
Ash: % max.	6.0	4.2

Physical Properties

Properties	Specification	Typical
+100 US Mesh %	5 max.	4.9
+200 US mesh %	As Reported	43.0
+325 US Mesh %	As Reported	27.0
-325 US mesh %	50 max.	25.1
Moisture: max. %	1.0	0.2

TDS.317 Rev.0

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Grade 1100-F1

Quality, Service, and Consistency

Material Type: Natural Graphite Flake

Chemical Properties

Properties	Specification	Typical
Carbon: % min.	94.0	95.3
Ash: % max.	6.0	4.7

Physical Properties

Properties	Specification	Typical
-35 US Mesh %	95 min.	99.2
+60 US Mesh %	As Reported	0.5
+80 US Mesh %	As Reported	9.7
+100 US Mesh %	As Reported	3.3
+200 US Mesh %	As Reported	60.0
-325 US Mesh %	10.0 max.	5.4
Moisture: max. %	0.5	0.2

TDS.0409 Rev.0

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Grade 1025uP-F

Quality, Service, and Consistency

Material Type: Natural Graphite Flake

Chemical Properties

Properties	Specification	Typical
Carbon: % min.	99.5	99.8
Ash: % max.	0.5	0.2

Physical Properties

Properties	Specification	Typical
D10: microns	<12	11.4
D50: microns	25-45	35.6
D90: microns	<120	63.2
Moisture: max. %	0.1	0.1

TDS.0433 Rev.0

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Grade 1050-F1

Quality, Service, and Consistency

Material Type: Natural Graphite Flake

Chemical Properties

Properties	Specification	Typical
Carbon: % min.	97.0	97.3
Ash: % max.	3.0	2.7

Physical Properties

Properties	Specification	Typical
+50 US Mesh %	80 min.	83
Moisture: max. %	0.5	0.2

TDS.0449 Rev.0

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Grade 1020uP-SF

Quality, Service, and Consistency

Material Type: Natural Graphite Flake

Chemical Properties

Properties	Specification	Typical
Carbon: % min.	99.95	99.99
Ash: % max.	0.05	0.01
FE: ppm	< 30	1.8

Physical Properties

Properties	Specification	Typical
D10: microns	9.0-13.0	11.5
D50: microns	16.0-20.0	18.2
D90: microns	26.0-32.0	27.9
D99: microns	< 55	35.2
Moisture: max. %	0.1	0.01
Tap Density: g/cc	> 1.0	1.07
True Density: g/cc	> 2.18	2.19
Specific Area: m ² /g	1.6-2.4	1.80

TDS.103 Rev.3

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Grade 1120-F1

Quality, Service, and Consistency

Material Type: Natural Graphite Flake

Chemical Properties

Properties	Specification	Typical
Carbon: % min.	96.0	98.0
Ash: % max.	4.0	2.0
Surface Coefficient g/100 cm ³	60-70 g/100 cm ³	65

Physical Properties

Properties	Specification	Typical
+100 US Mesh %	80% Min.	90.0
Pan	20% Max.	10.0
Moisture: max. %	0.5	0.2

TDS.126 Rev.3

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Grade 1020-F1

Quality, Service, and Consistency

Material Type: Natural Graphite Flake

Chemical Properties

Properties	Specification	Typical
Carbon: % min.	97.0	98.0
Ash: % max.	3.0	2.0
Surface Coefficient g/cm ³	55-60 g/cm ³	58.0

Physical Properties

Properties	Specification	Typical
+80 US Mesh %	4% Min. / 8% max.	6.0
+100 US Mesh %	15% Min. / 28% Max.	20.0
+140 US Mesh %	50% Min. / 60% Max.	55.0
+200 US Mesh %	10% Min. / 18% Max.	15.0
Pan	1% Min. / 5% Max.	4.0
Moisture: max. %	0.5	0.2

TDS.126 Rev.3

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