



上海交通大学
材料科学与工程学院
School of Materials Science and Engineering, SJTU



大赛图像评分细则图解 及本届大赛样品鉴评

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主要内容

● 本届大赛图像评分细则图解

● 本届大赛样品分析

● 试评（纯铁）





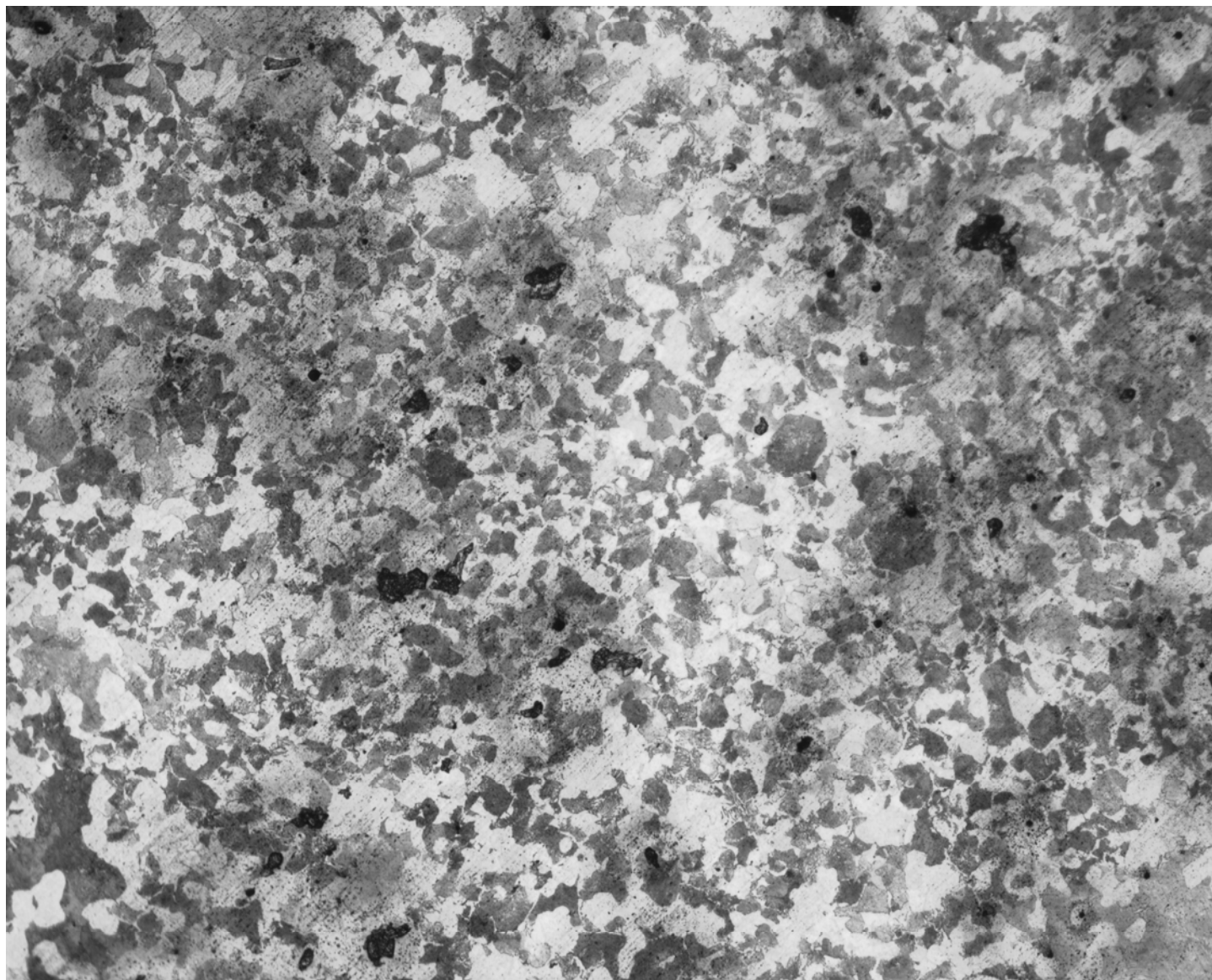
复赛及决赛采用以下统一的评分标准:

序号	评分项目	要求	类别	得分
1	金相图像 质量 (80 分)	组织正确与 组织清晰度 (50 分)	组织无法辨别	0 ~ 10 分
			可以辨别部分组织、很不清晰	11 ~ 20 分
			组织可勉强辨别, 不够清晰	21 ~ 30 分
			组织正确、组织比较清晰	31 ~ 40 分
			组织正确、组织很清晰	41 ~ 50 分
		划痕 (20 分)	低倍粗大划痕很多且交叉	0 ~ 5 分
			低倍粗大划痕 2 条或高倍细划痕数量很多 (4 ~ 5 个视场可见)	6 ~ 9 分
			低倍粗大划痕 1 条或高倍细划痕数量较多 (2 ~ 3 个视场可见)	10 ~ 13 分
			无低倍粗大划痕, 高倍细划痕数量较少 (1 个视场可见)	14 ~ 17 分
			无低倍粗大划痕, 高倍细划痕数量很少或没有	18 ~ 20 分
		假象 (10 分)	假象较多	0 ~ 3 分
			假象较少	4 ~ 7 分
			基本没有假象	8 ~ 10 分



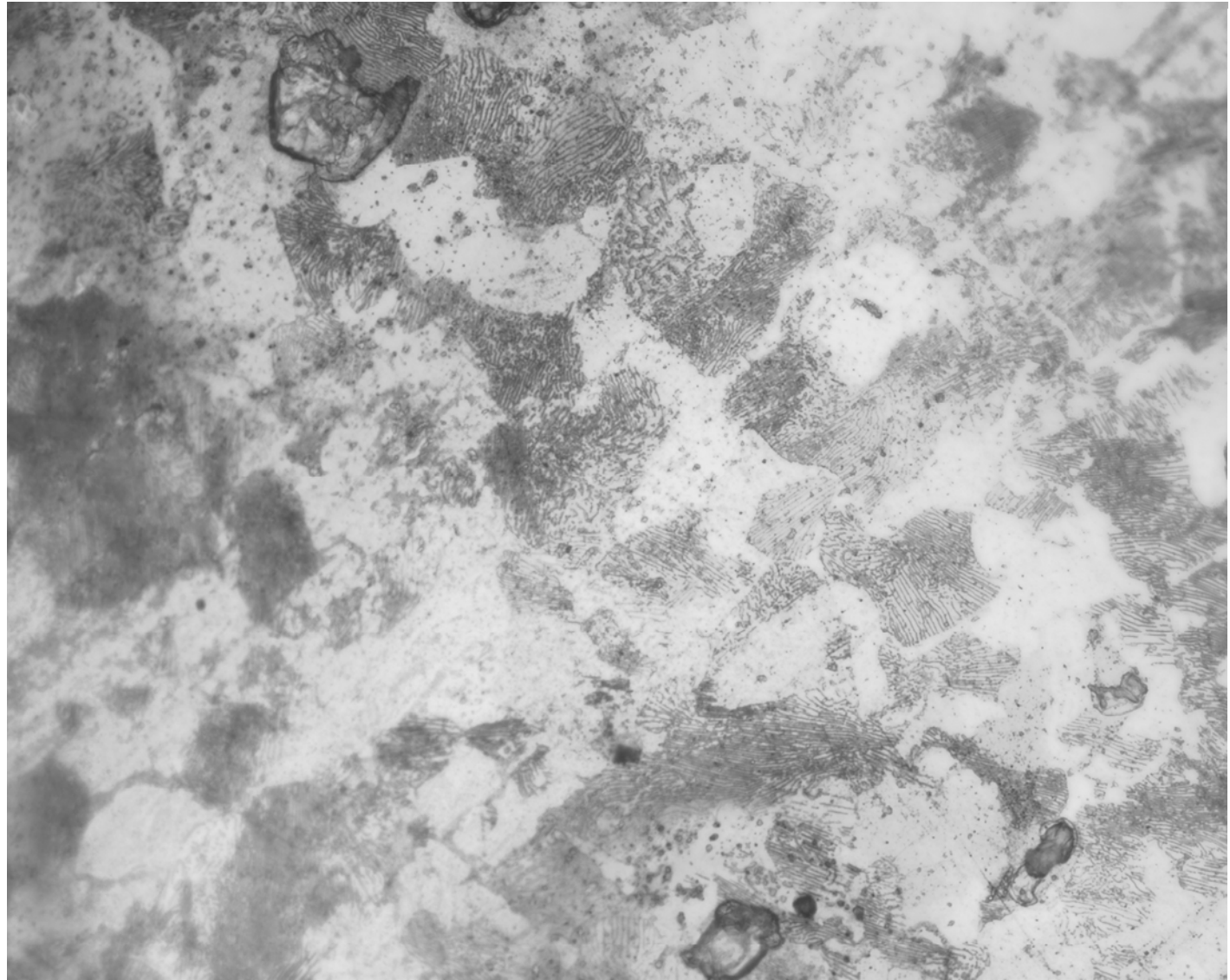


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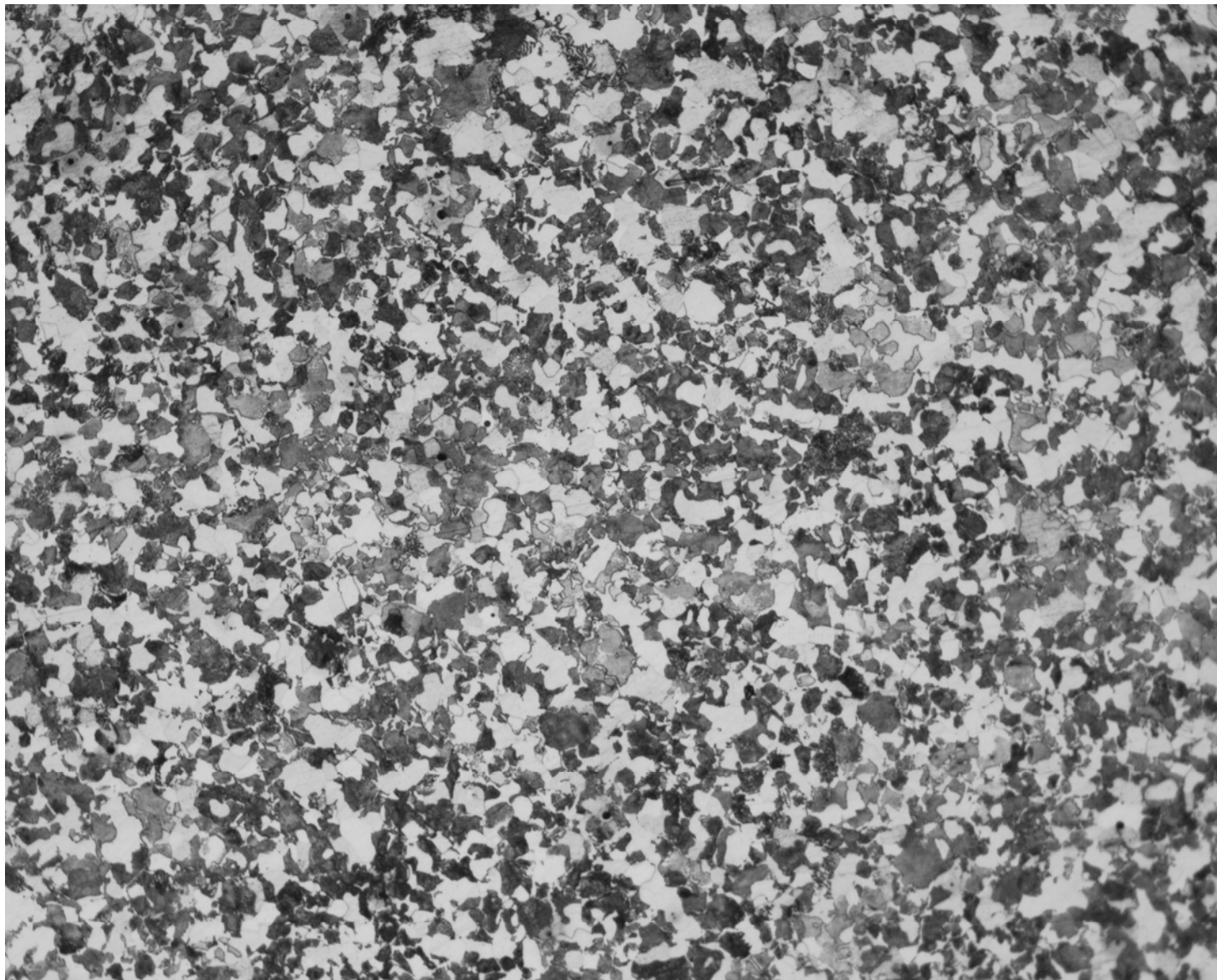


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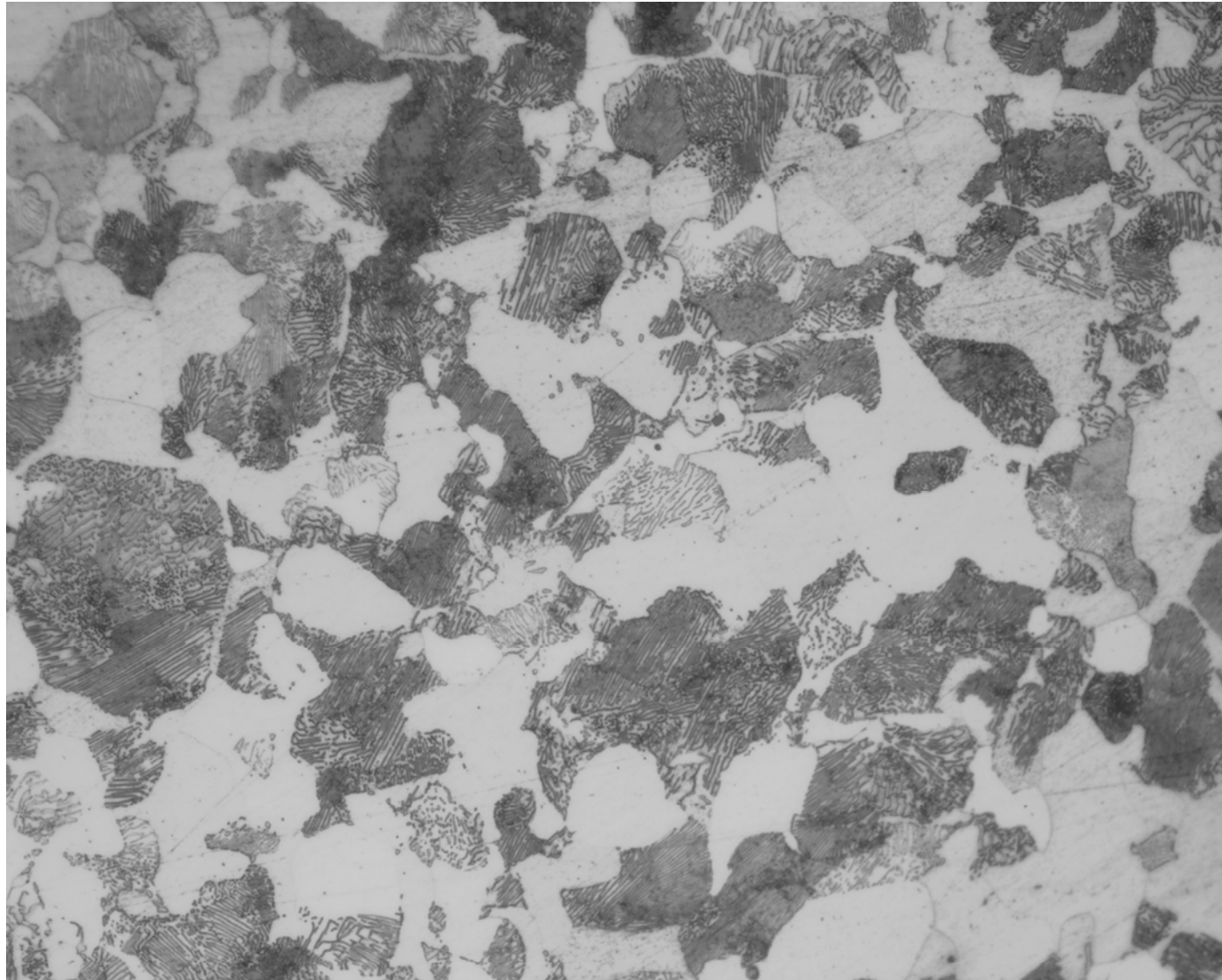


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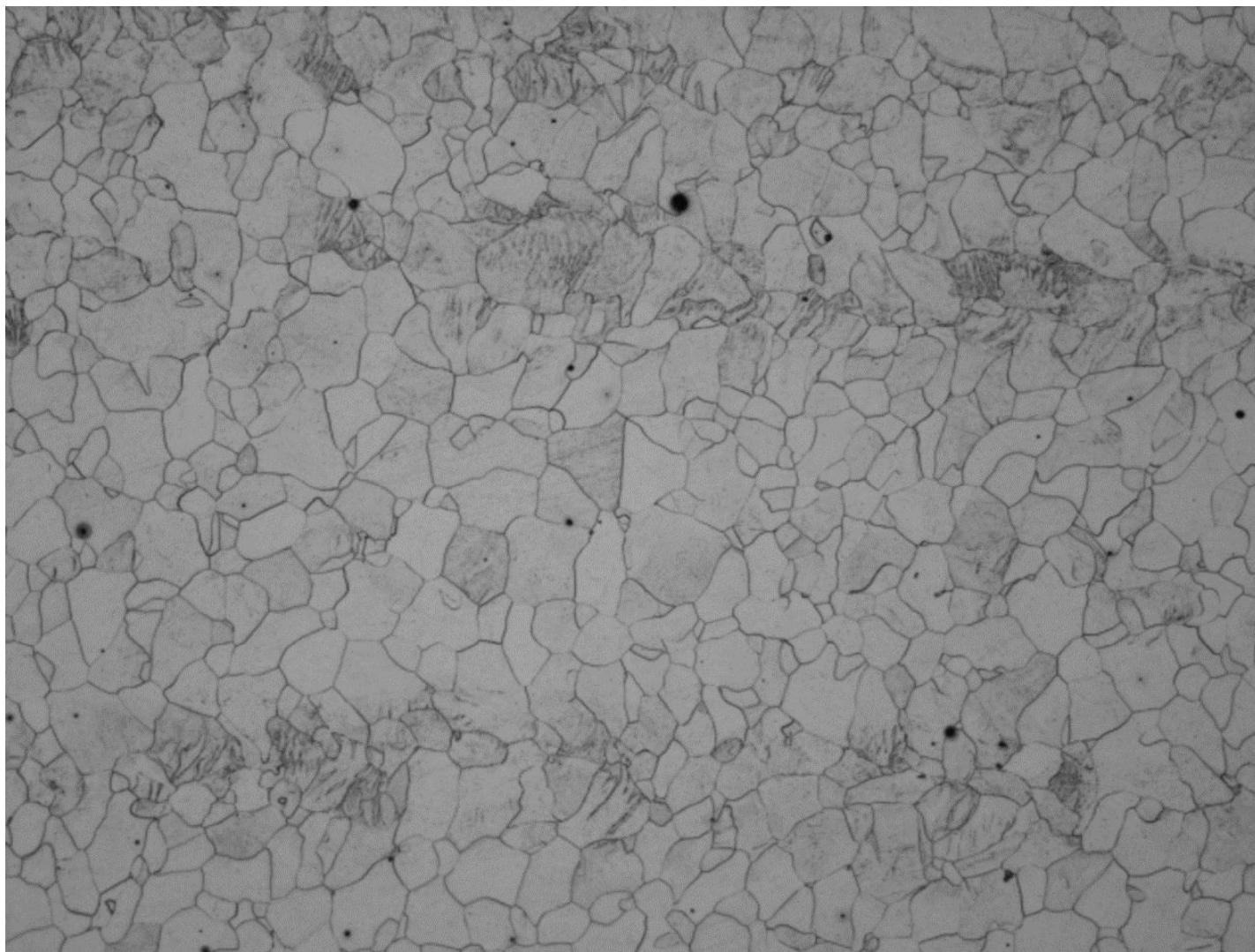


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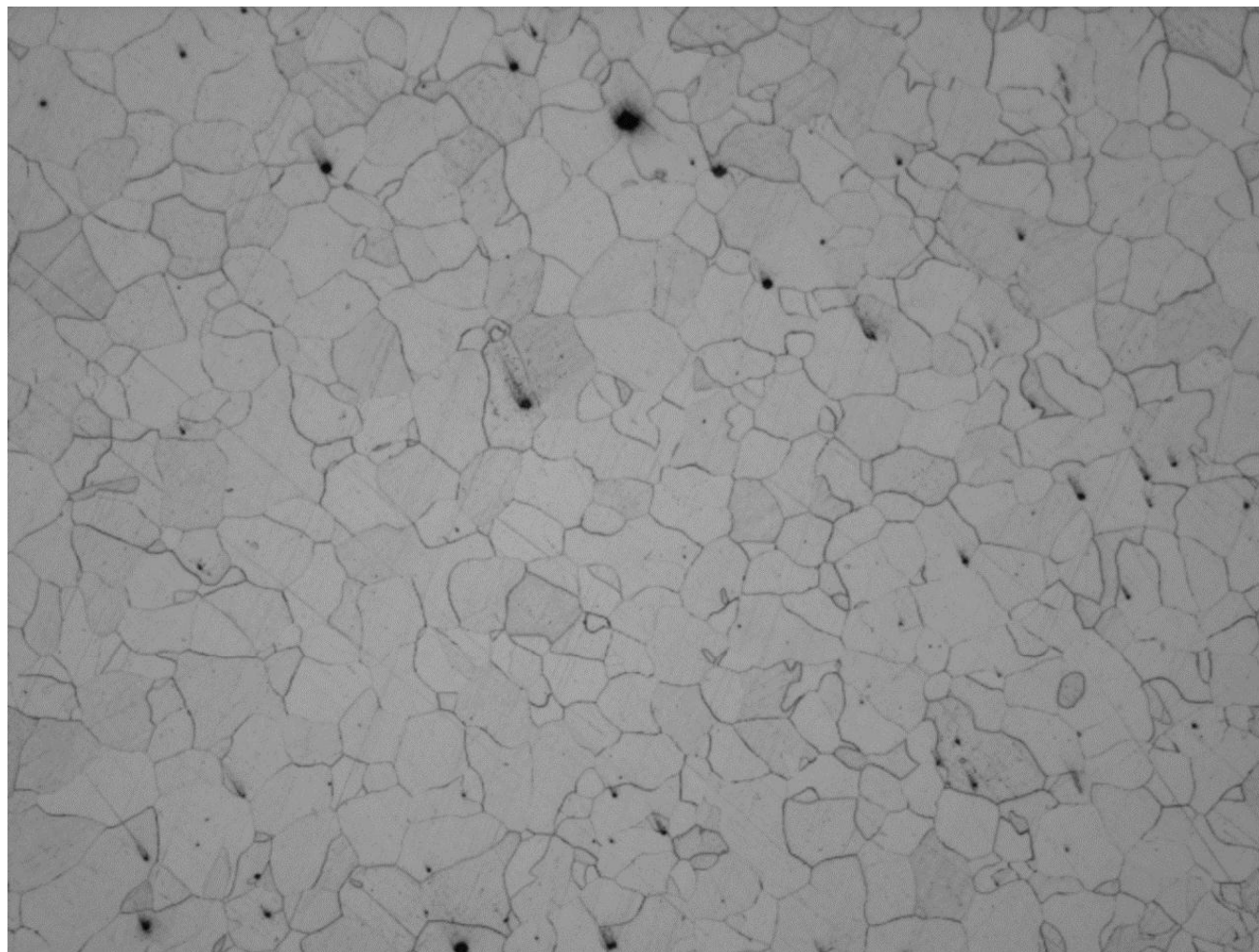


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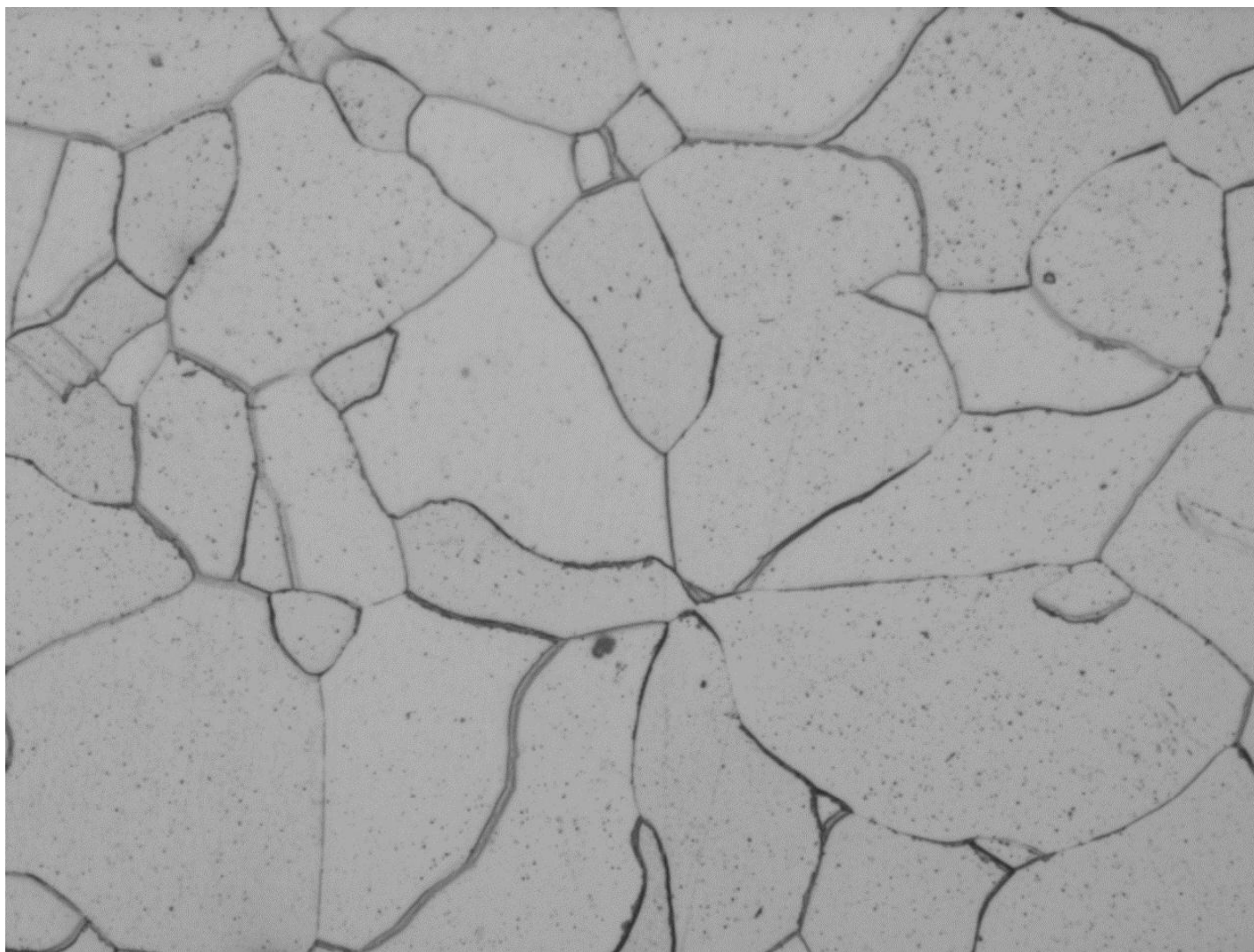


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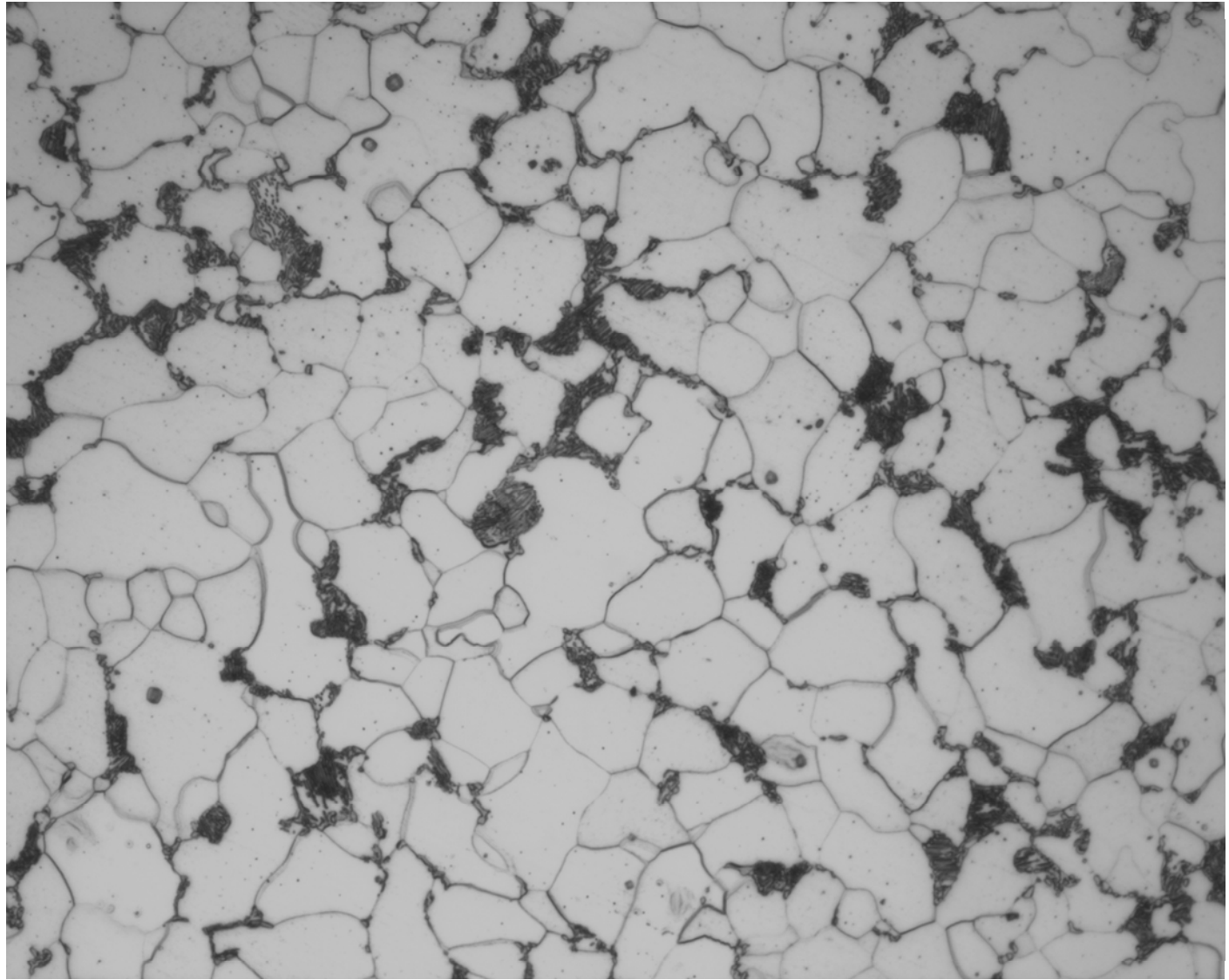


10.2





10.2





10.2



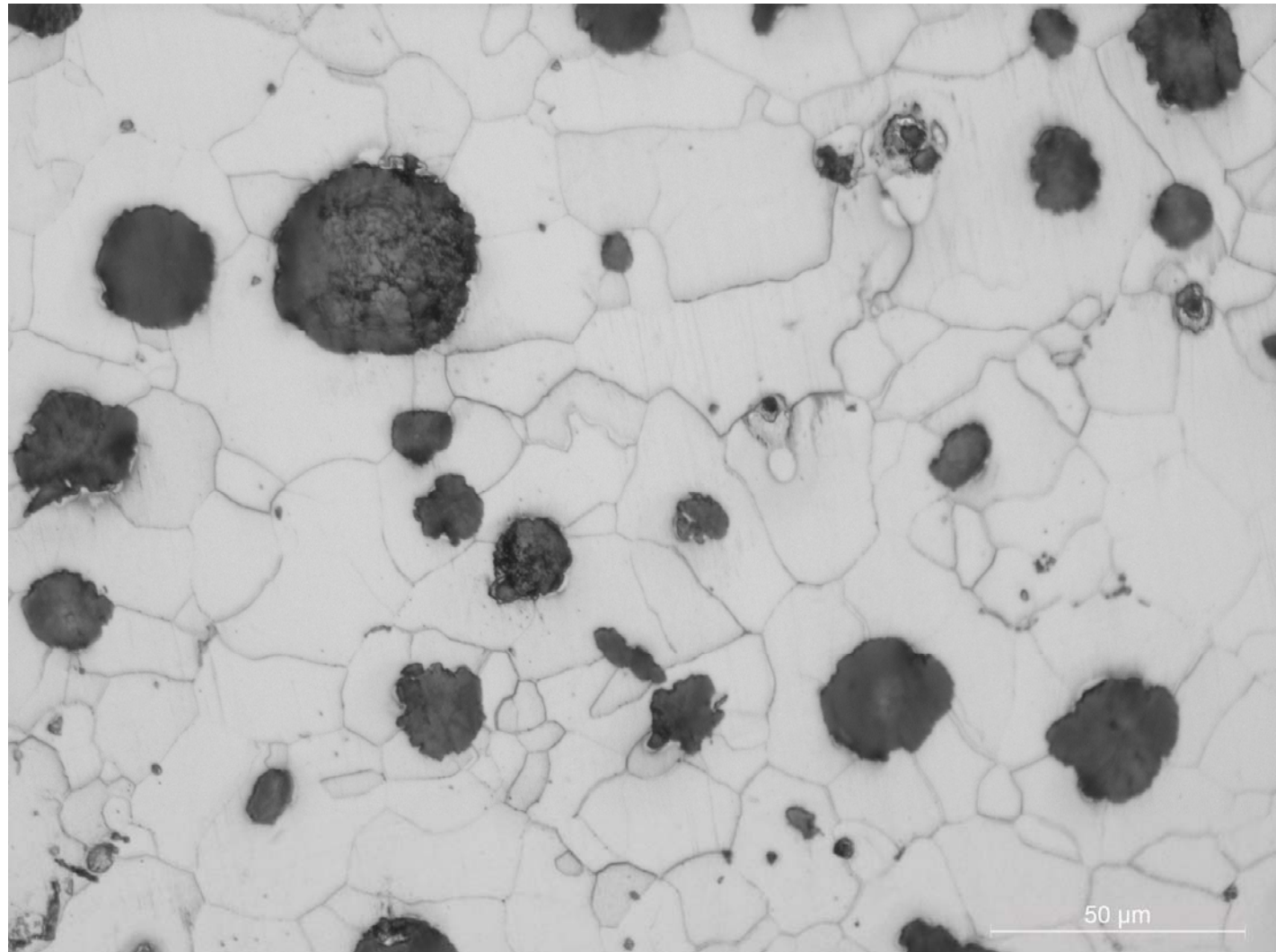


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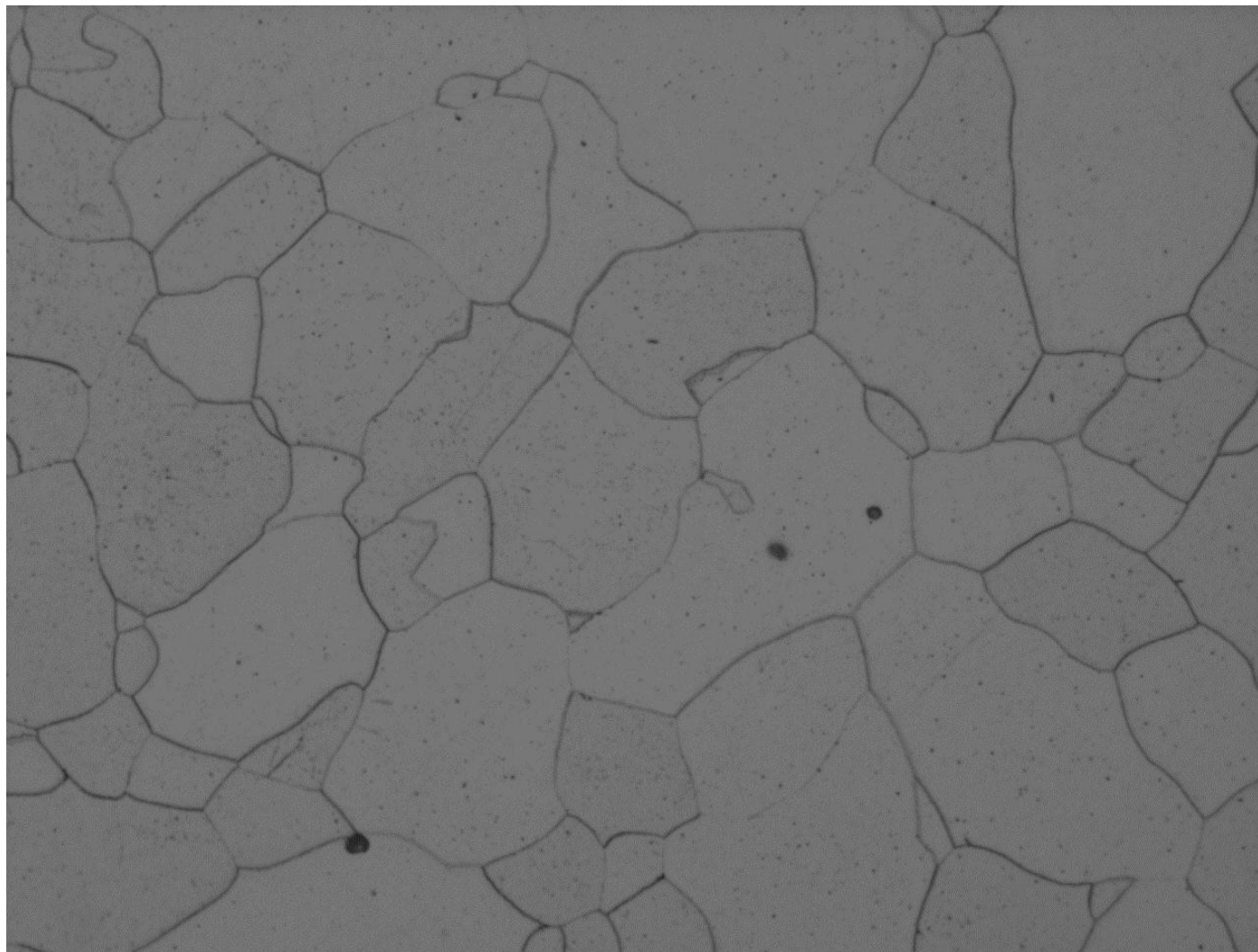


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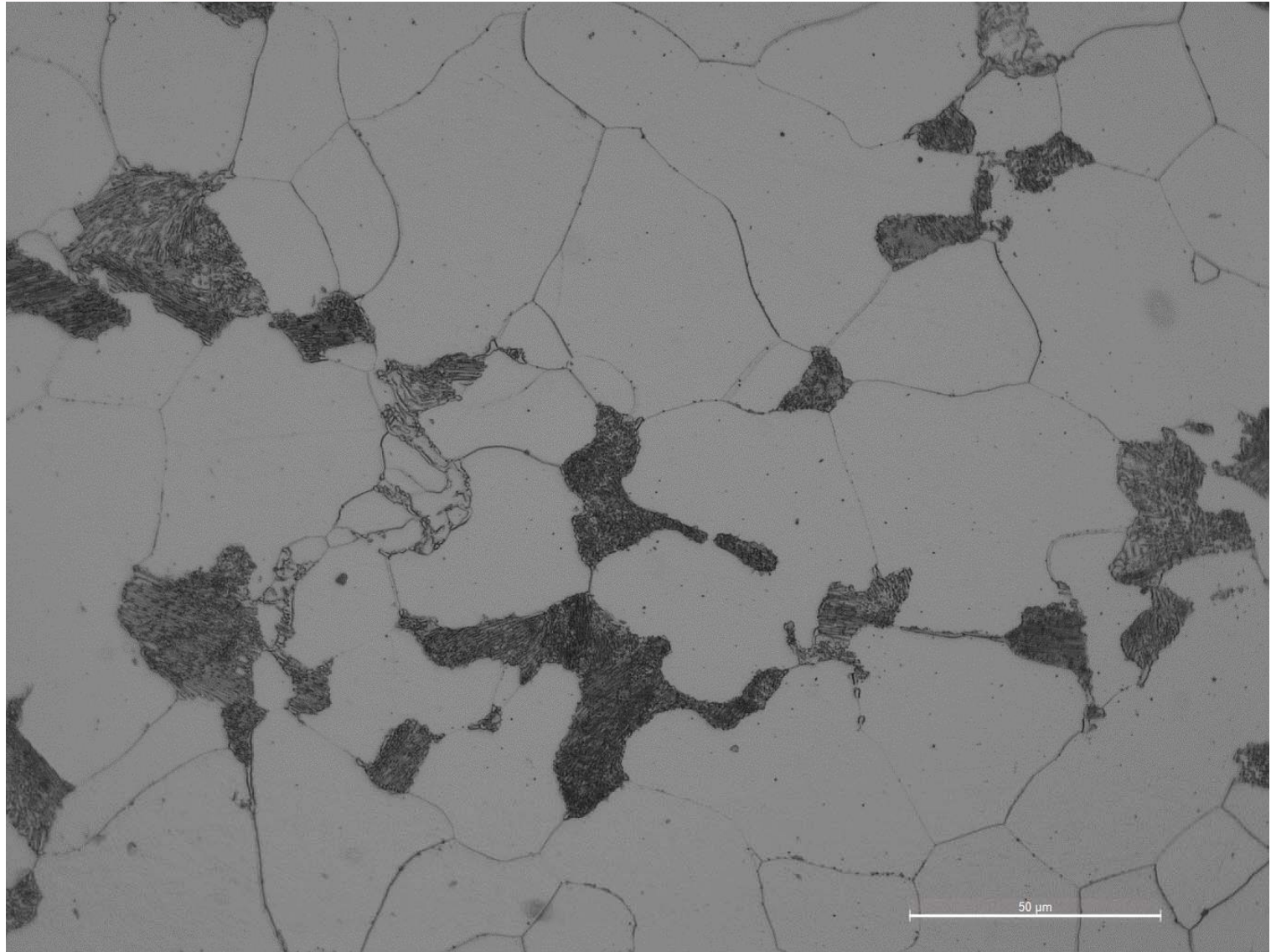


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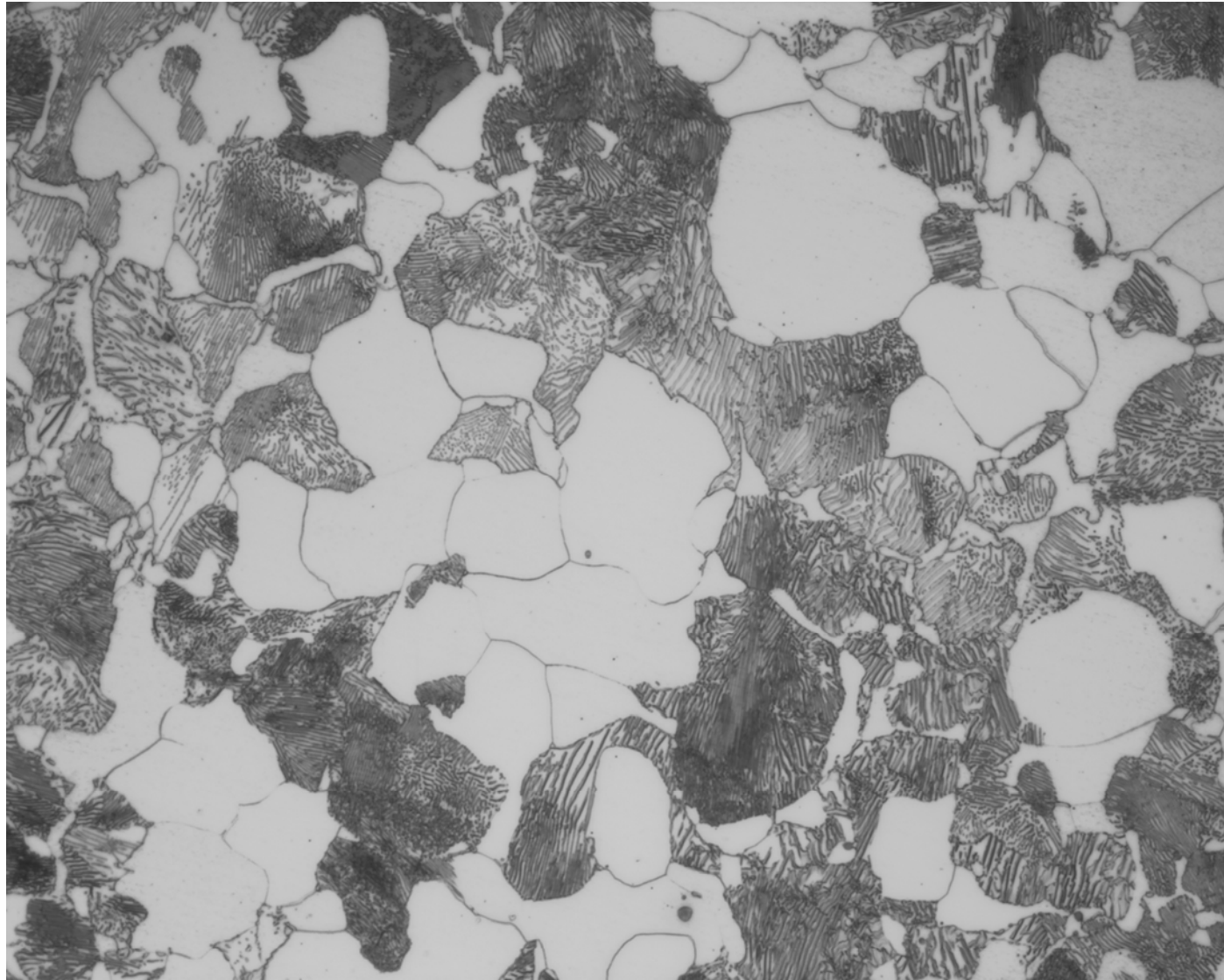


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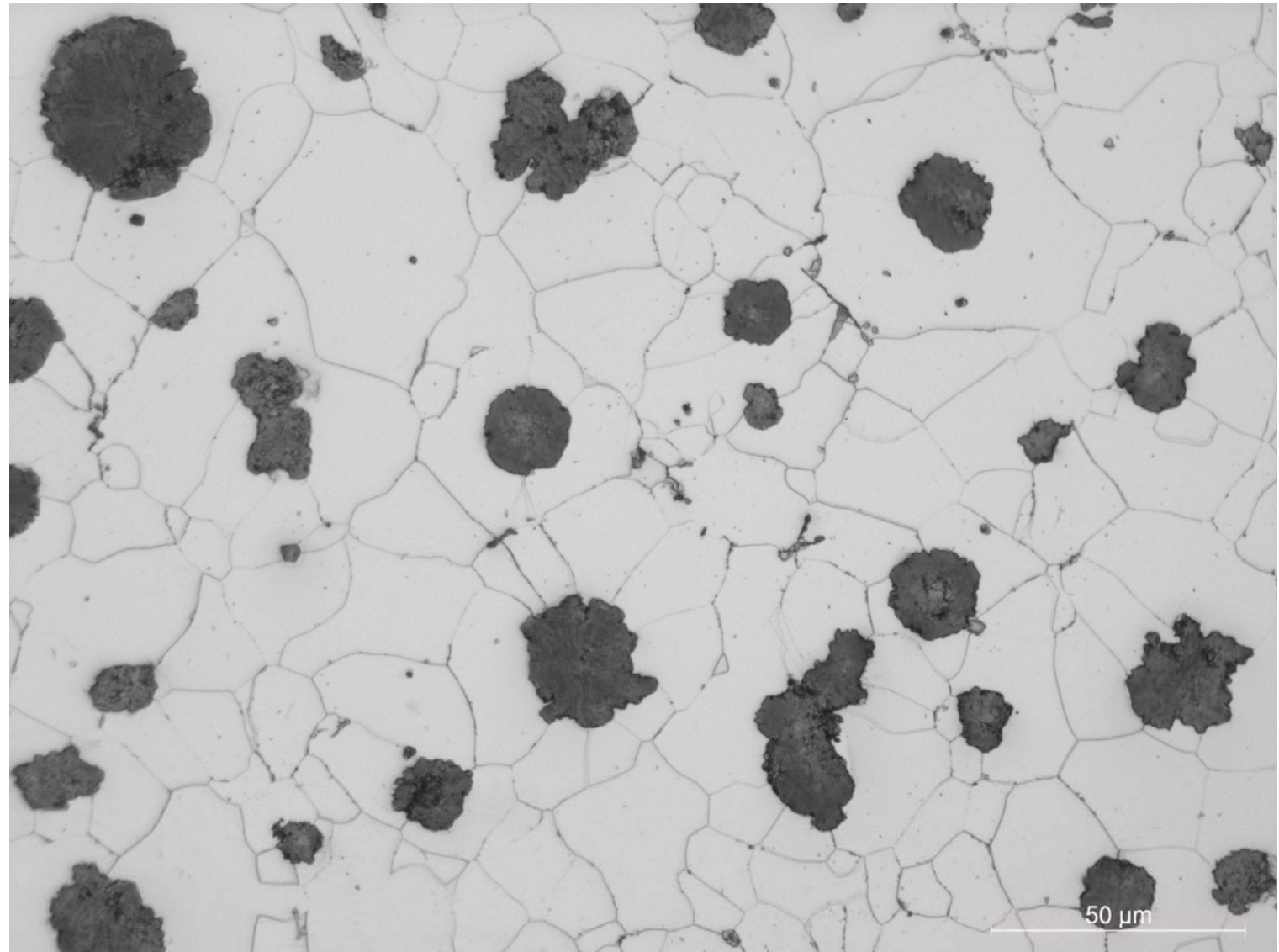


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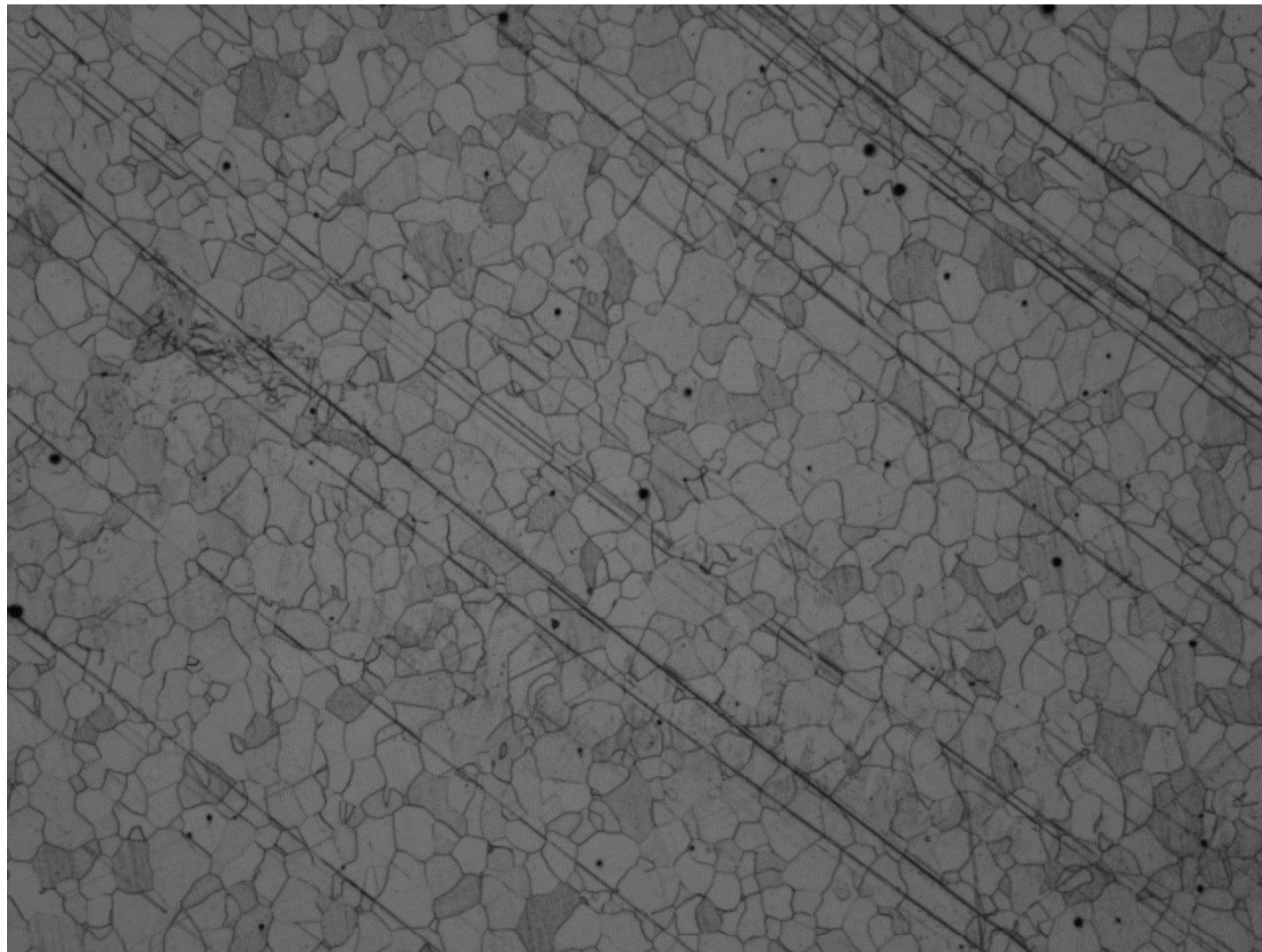


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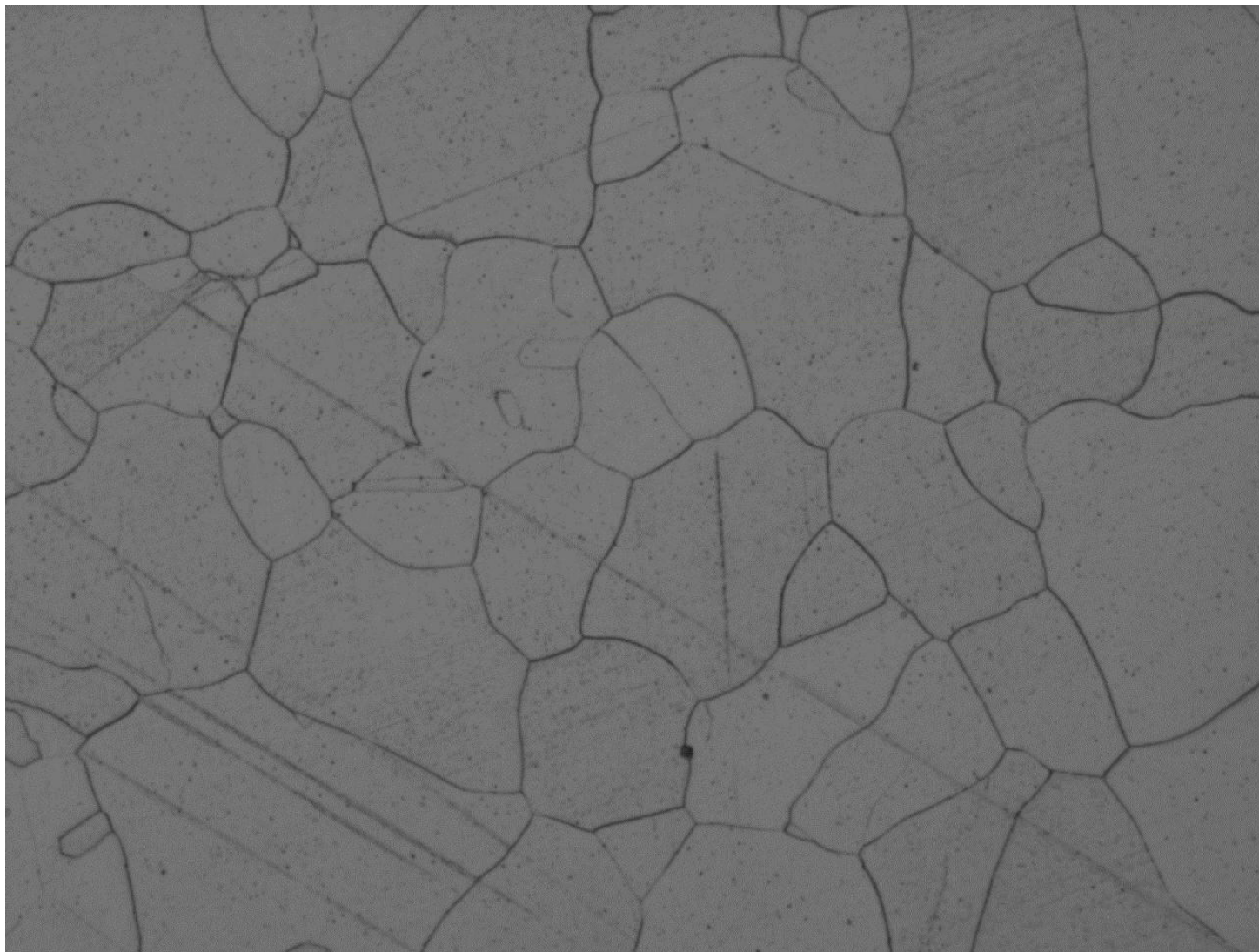


20.1





20.1



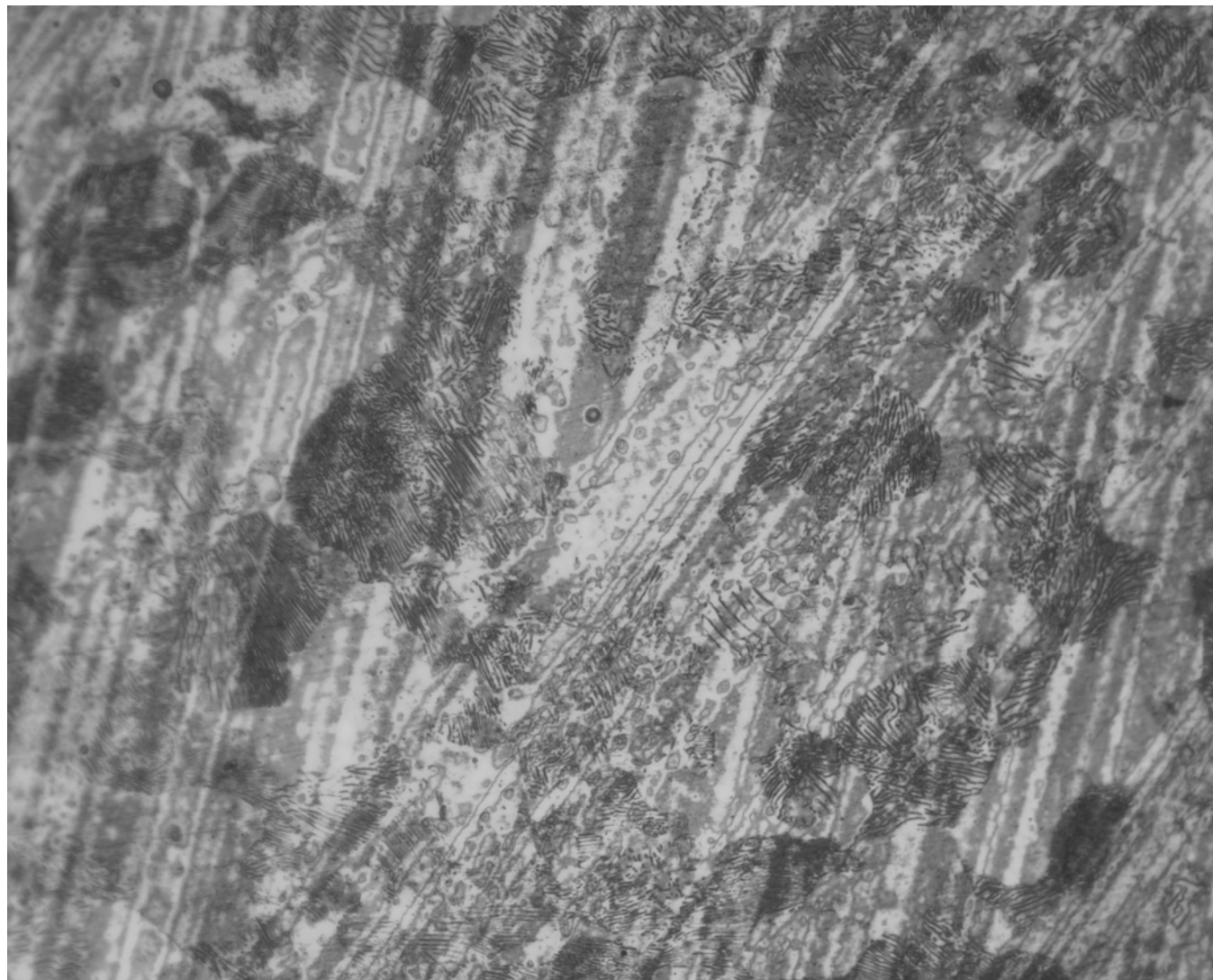


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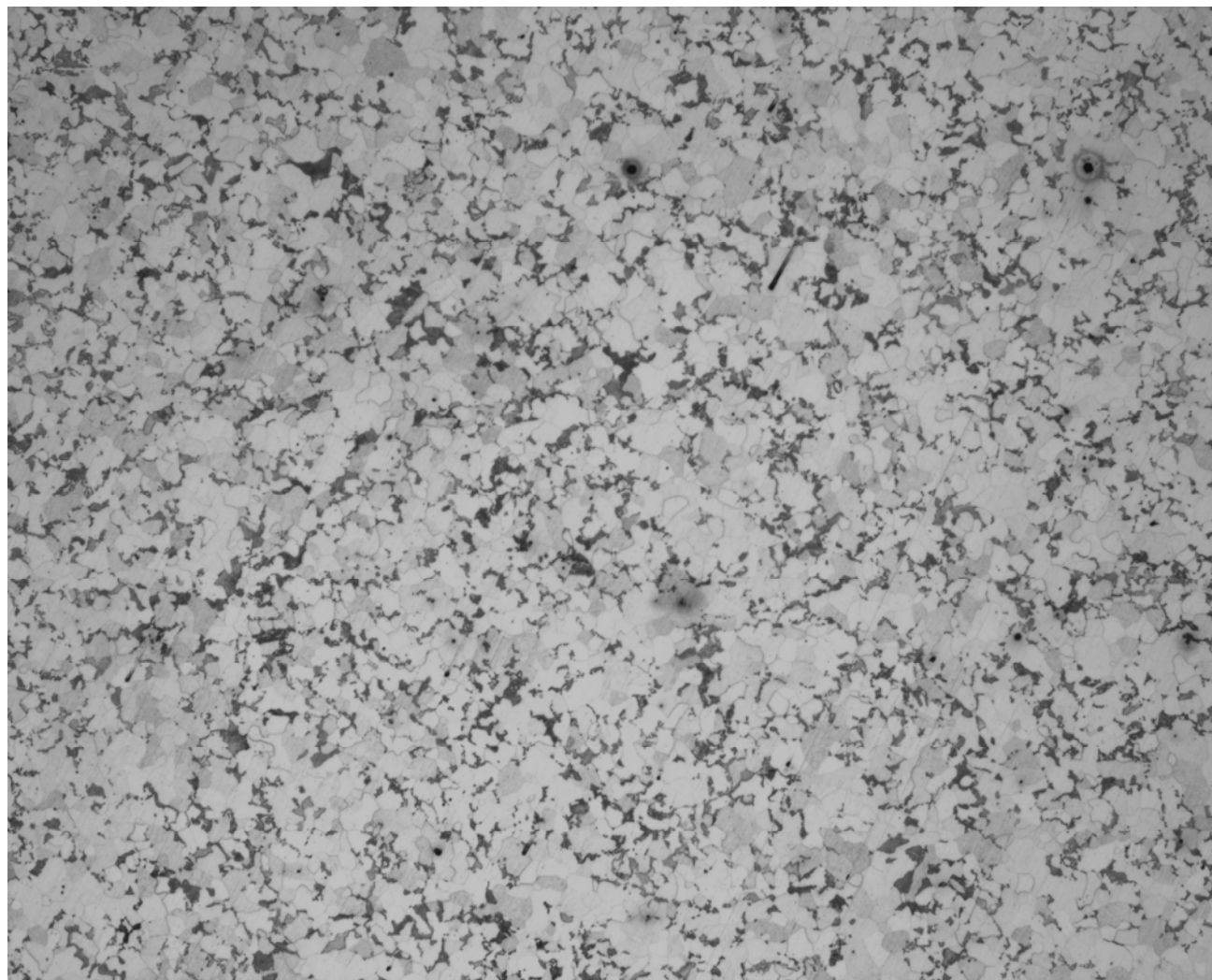


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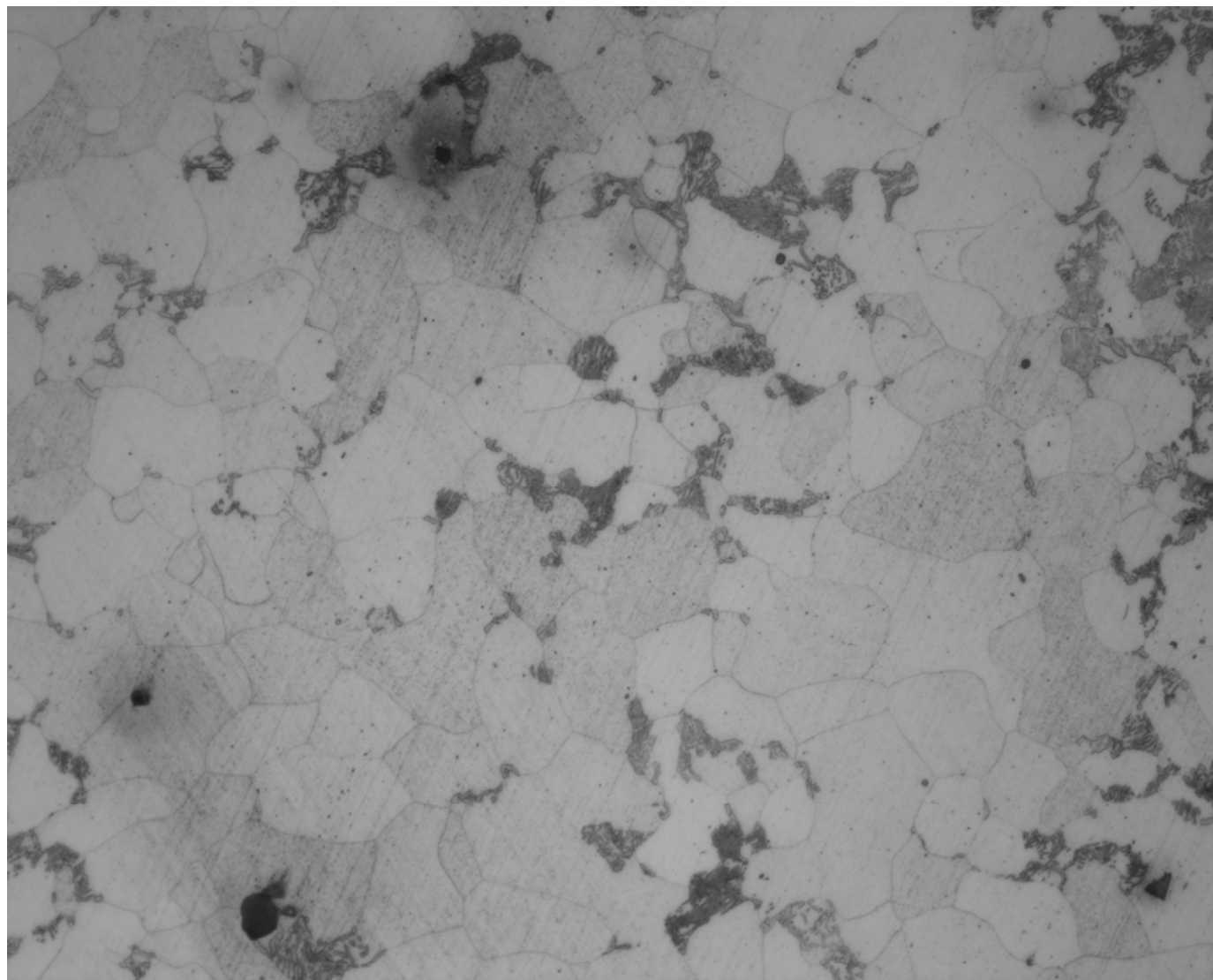


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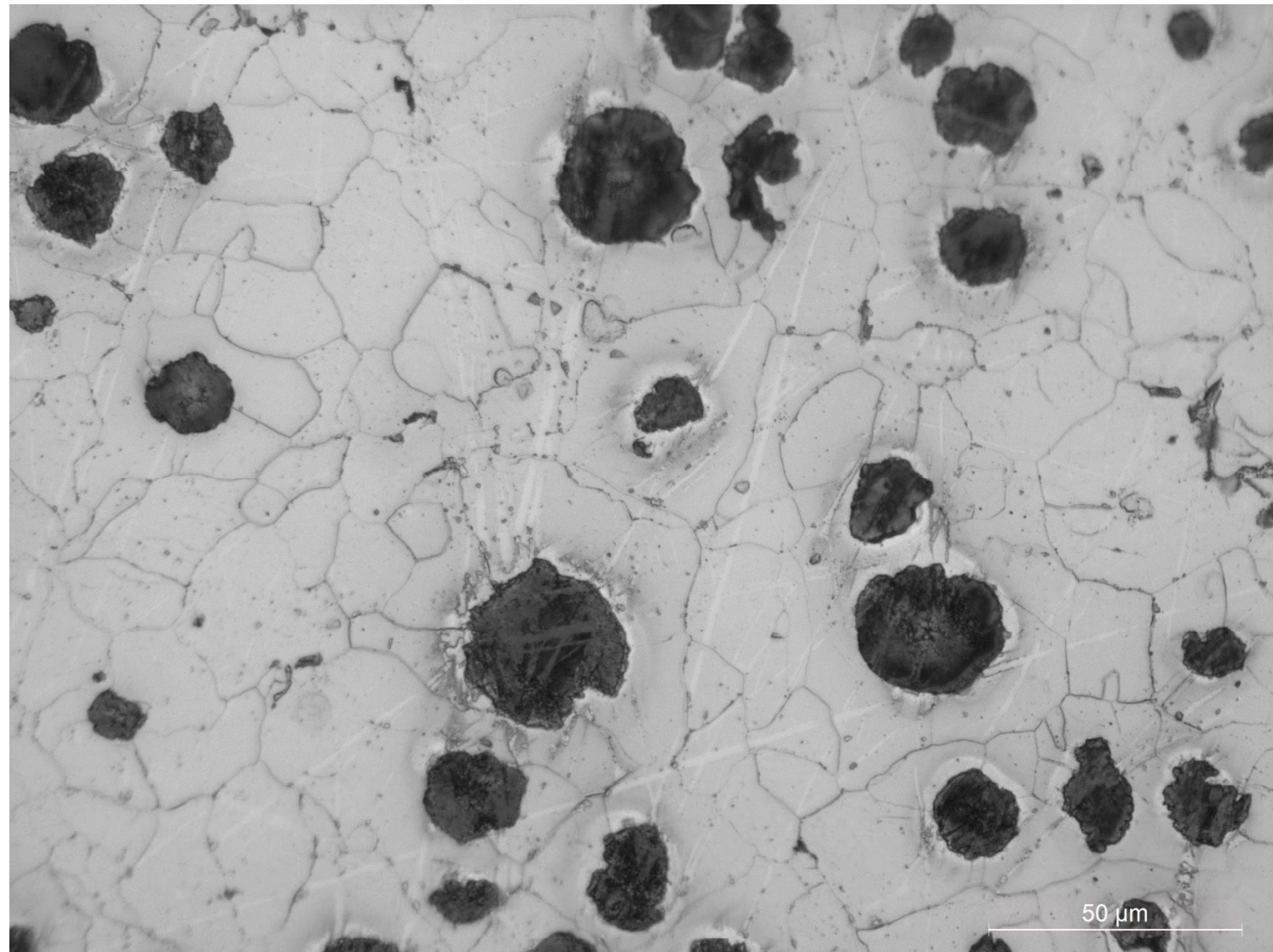


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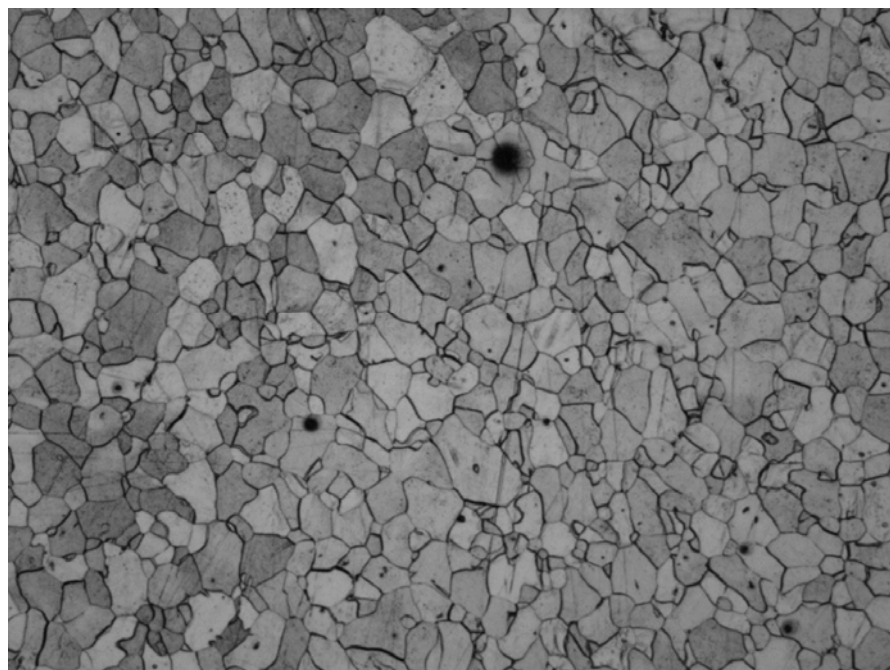
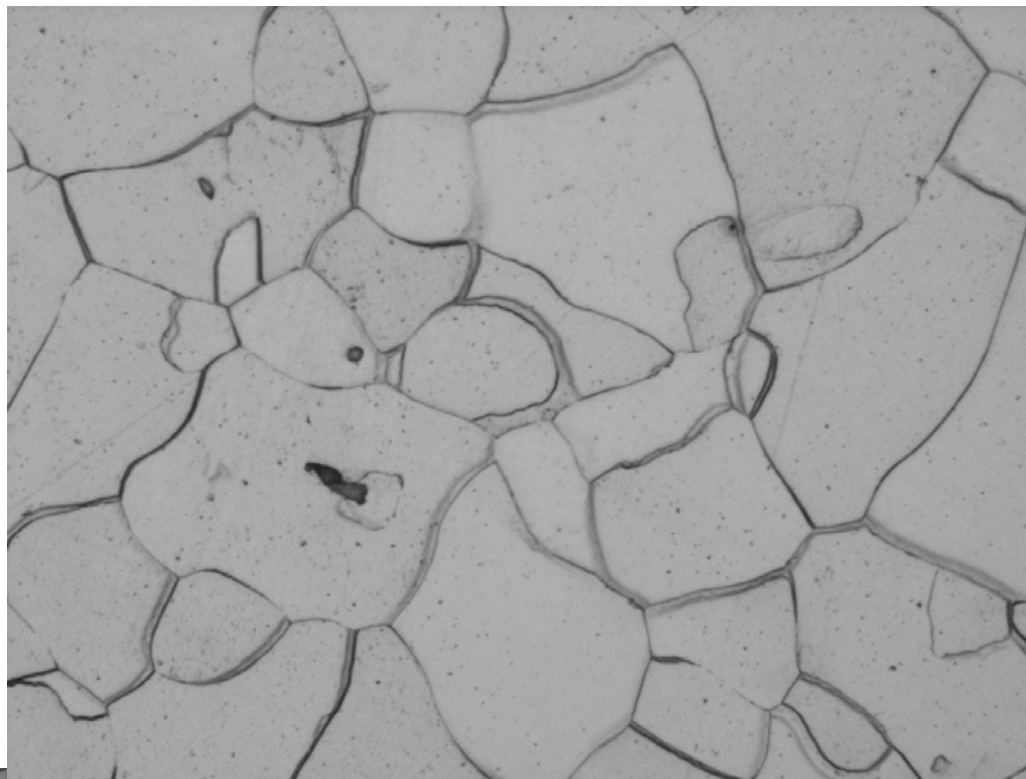




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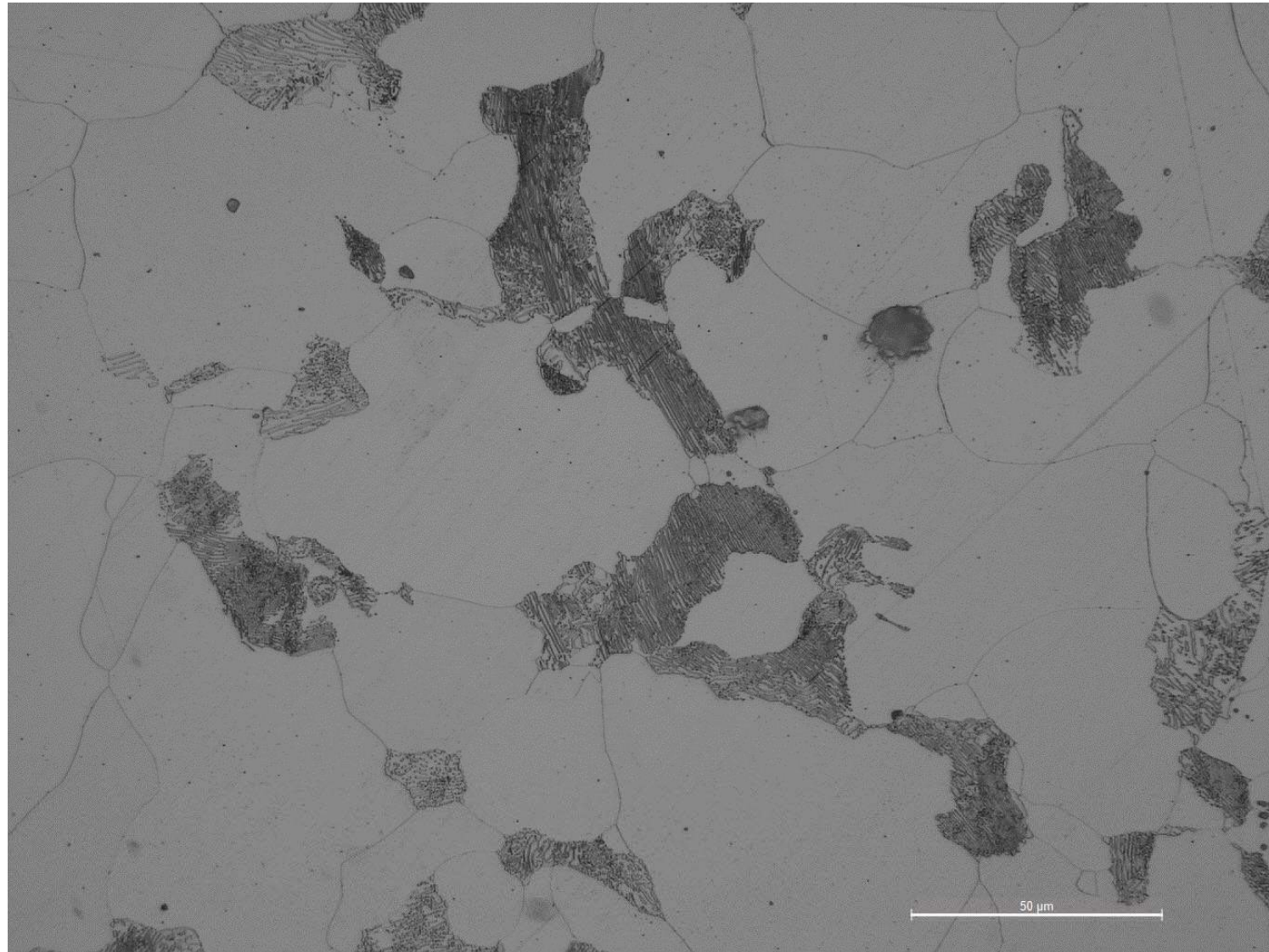


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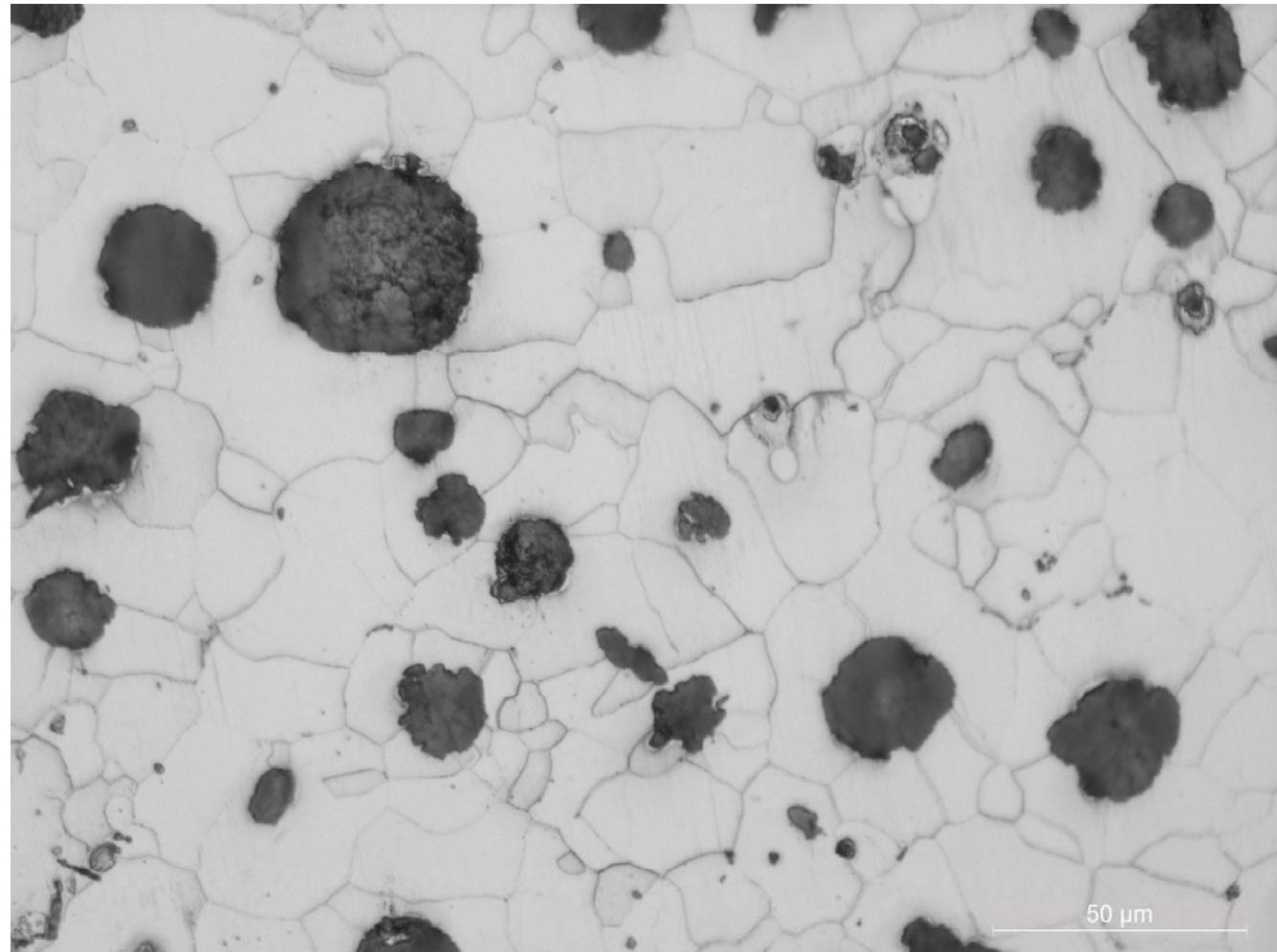


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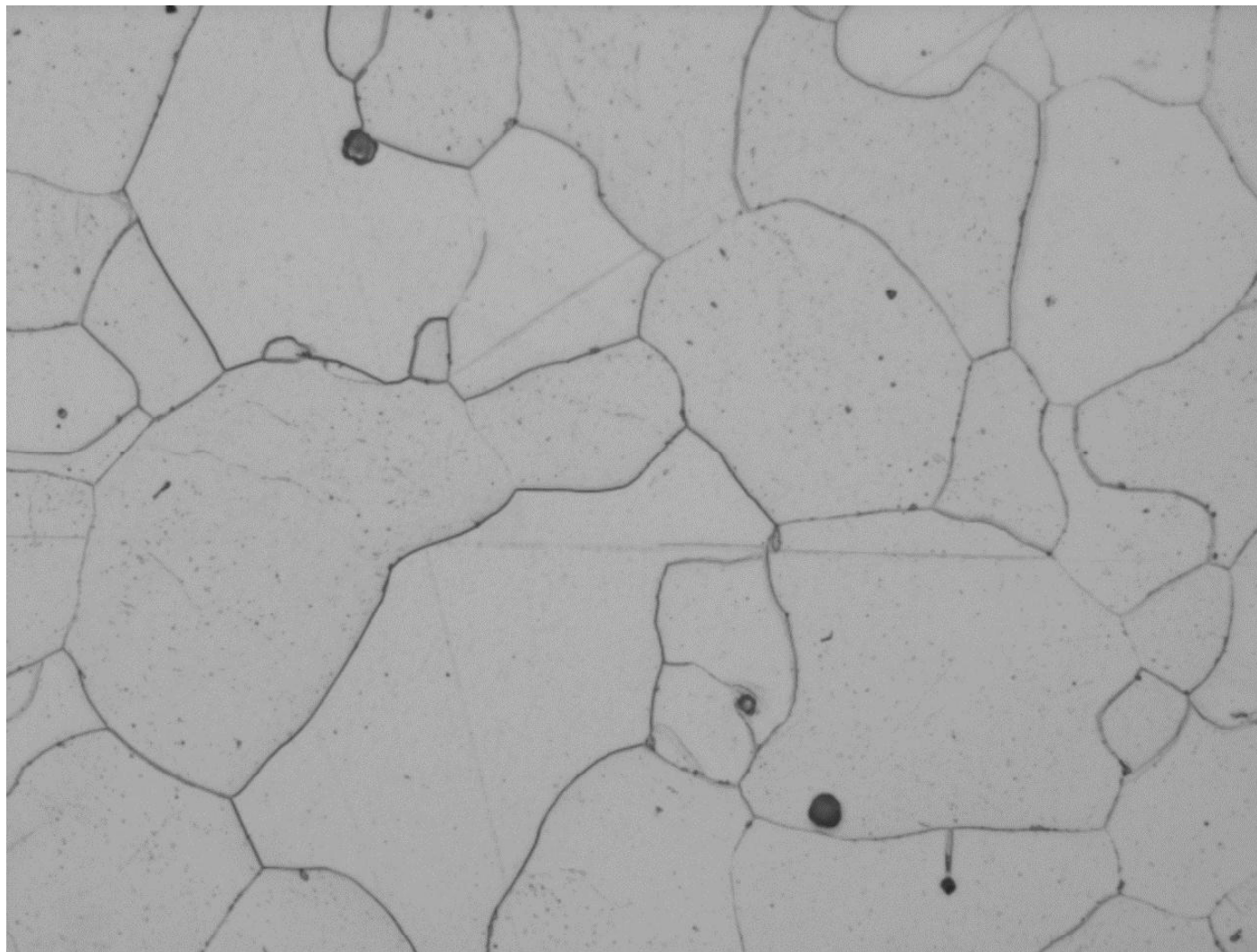


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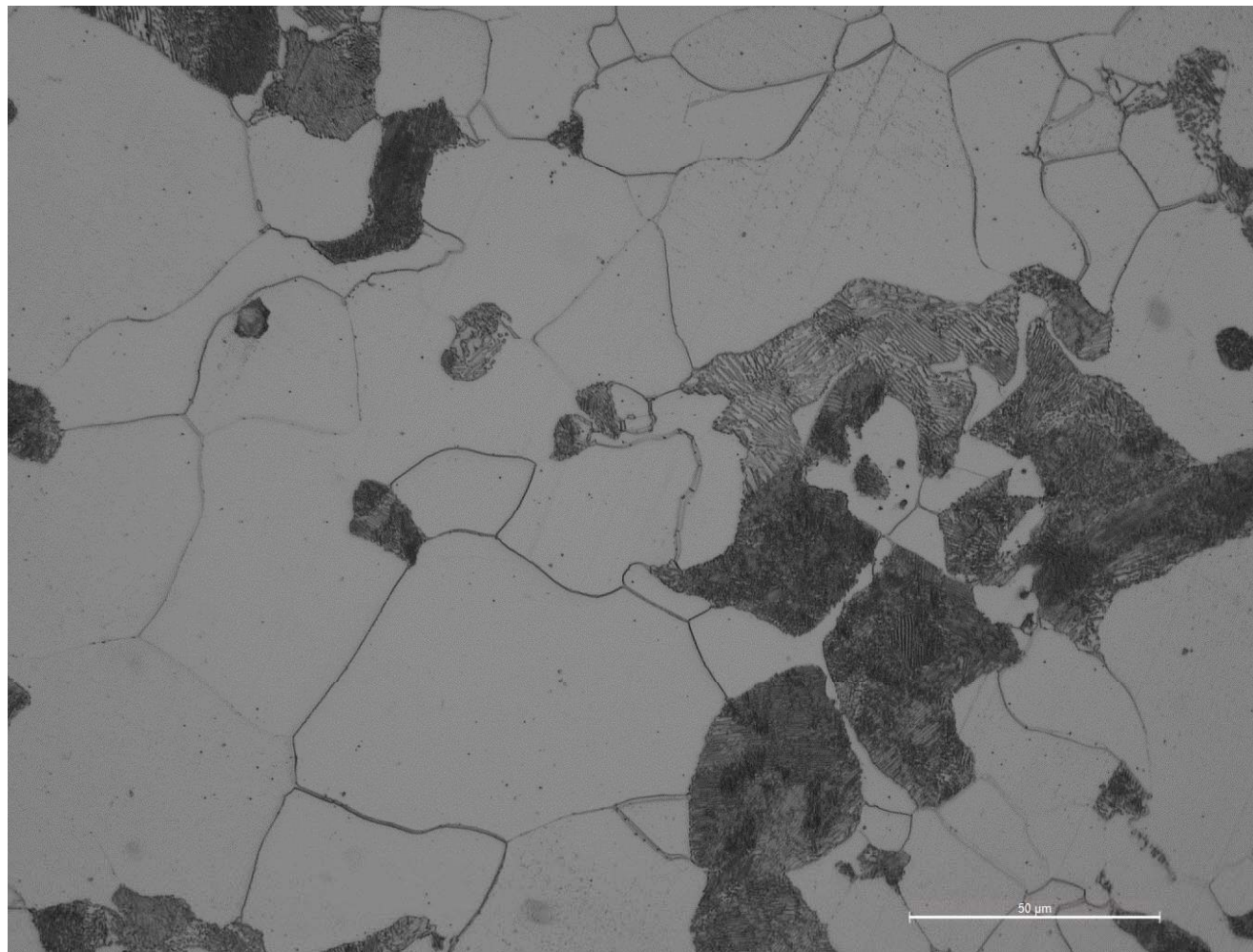


20.4



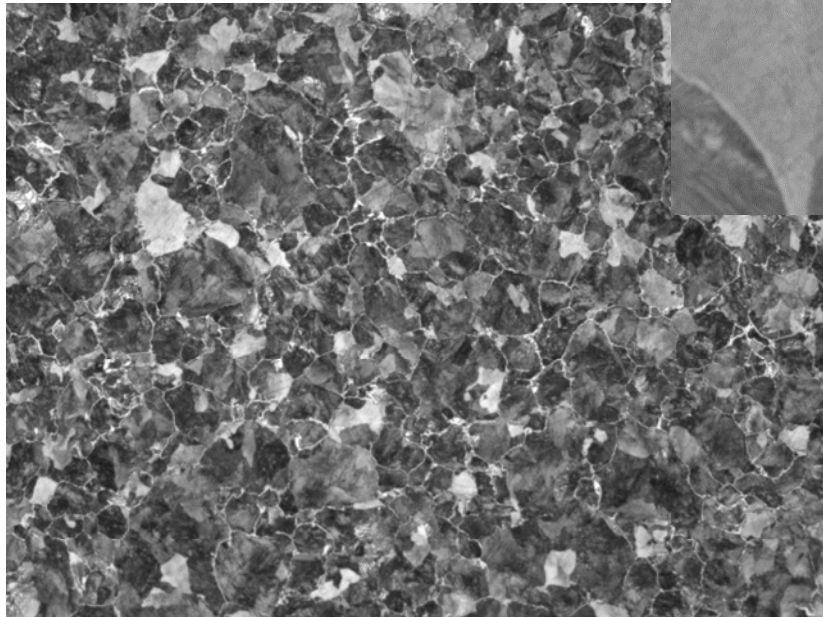
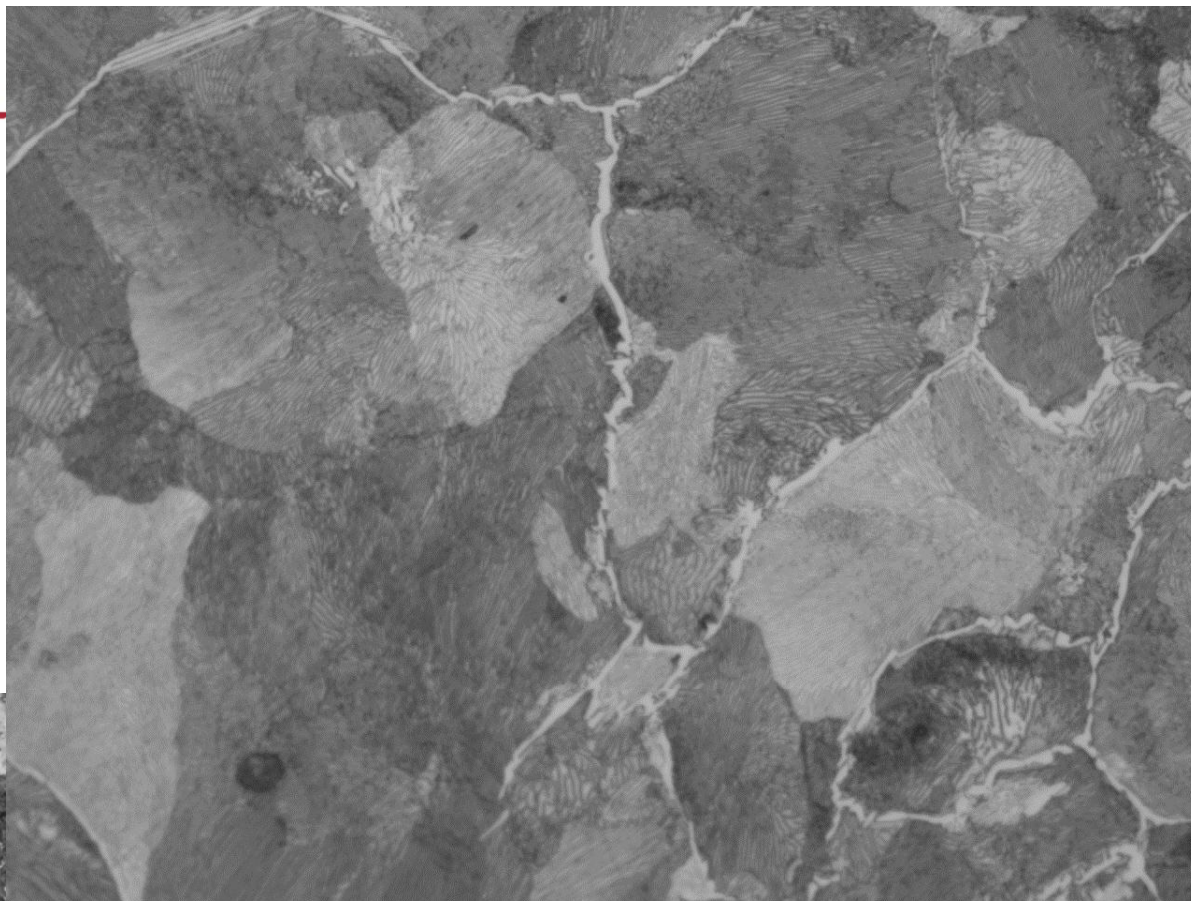


20.4





20.4



20.5

低倍肯定没有划痕

高倍看不见



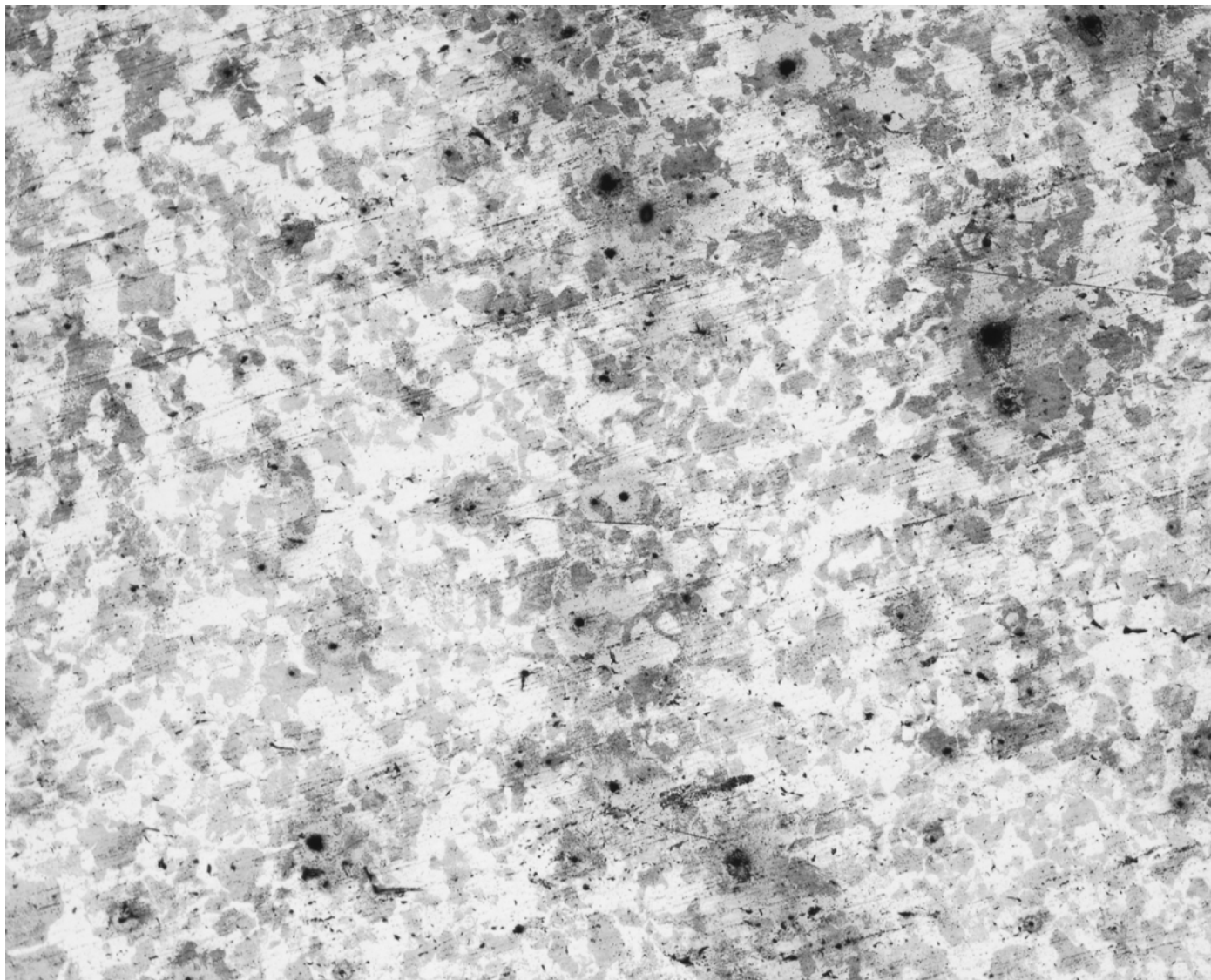
50.1

基本认定：没有腐蚀
(未能按规定时间完成)



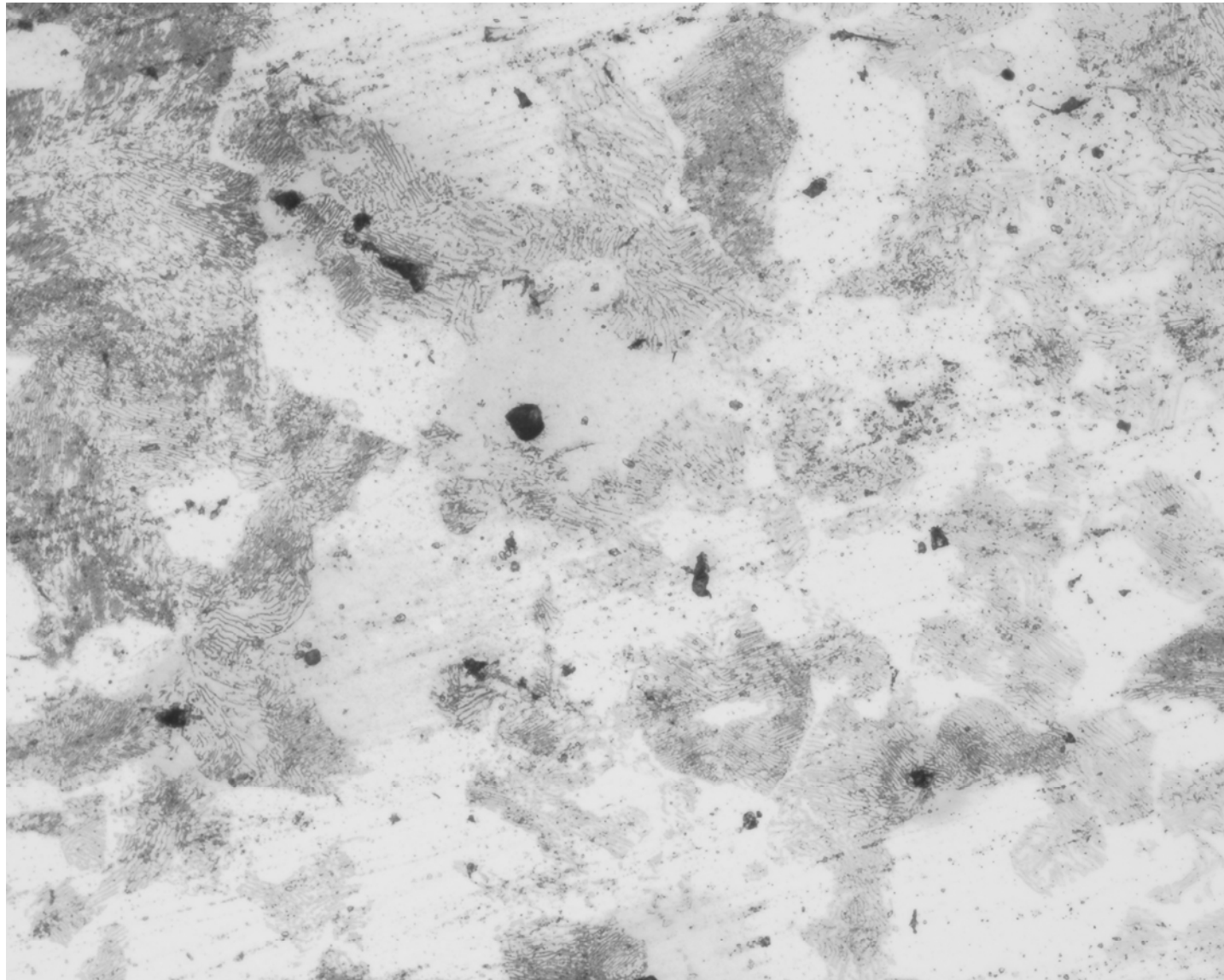


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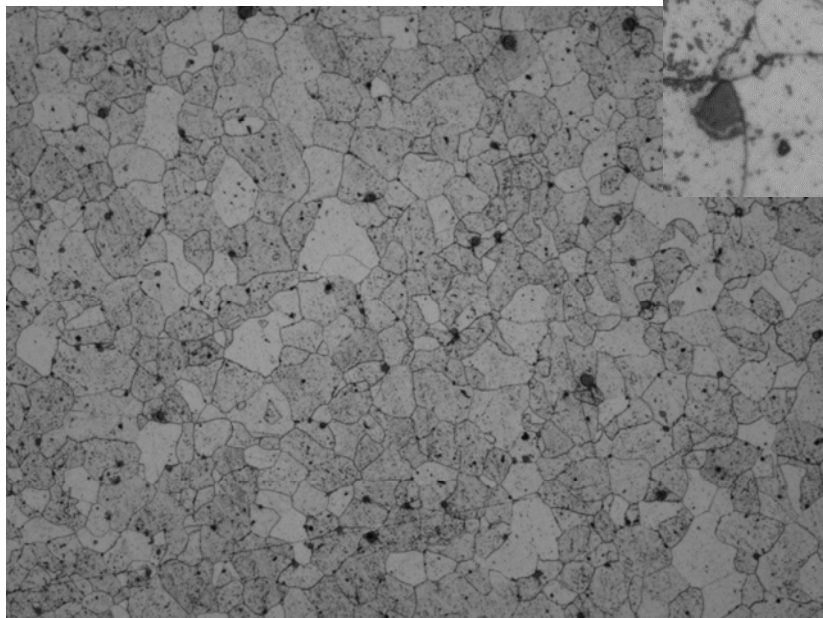
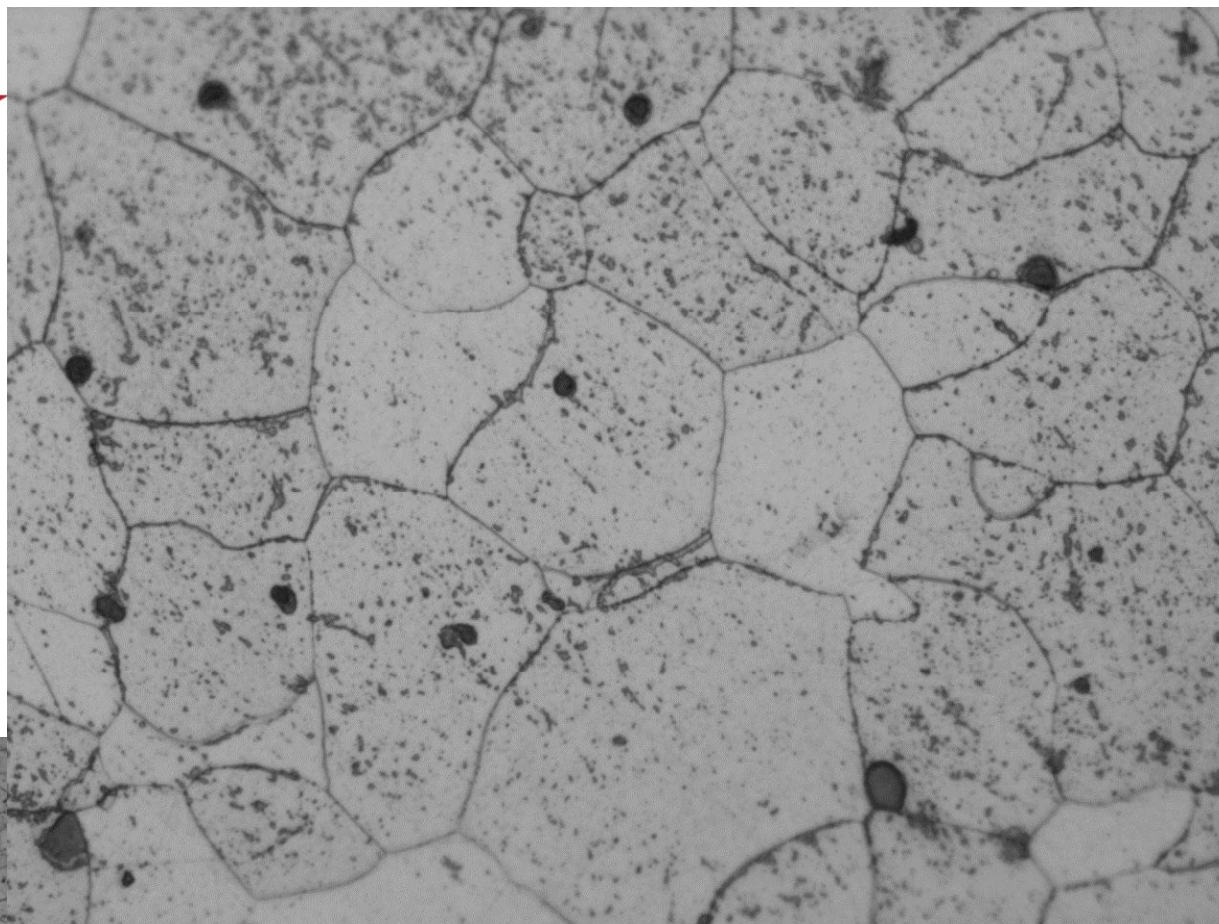


50.2



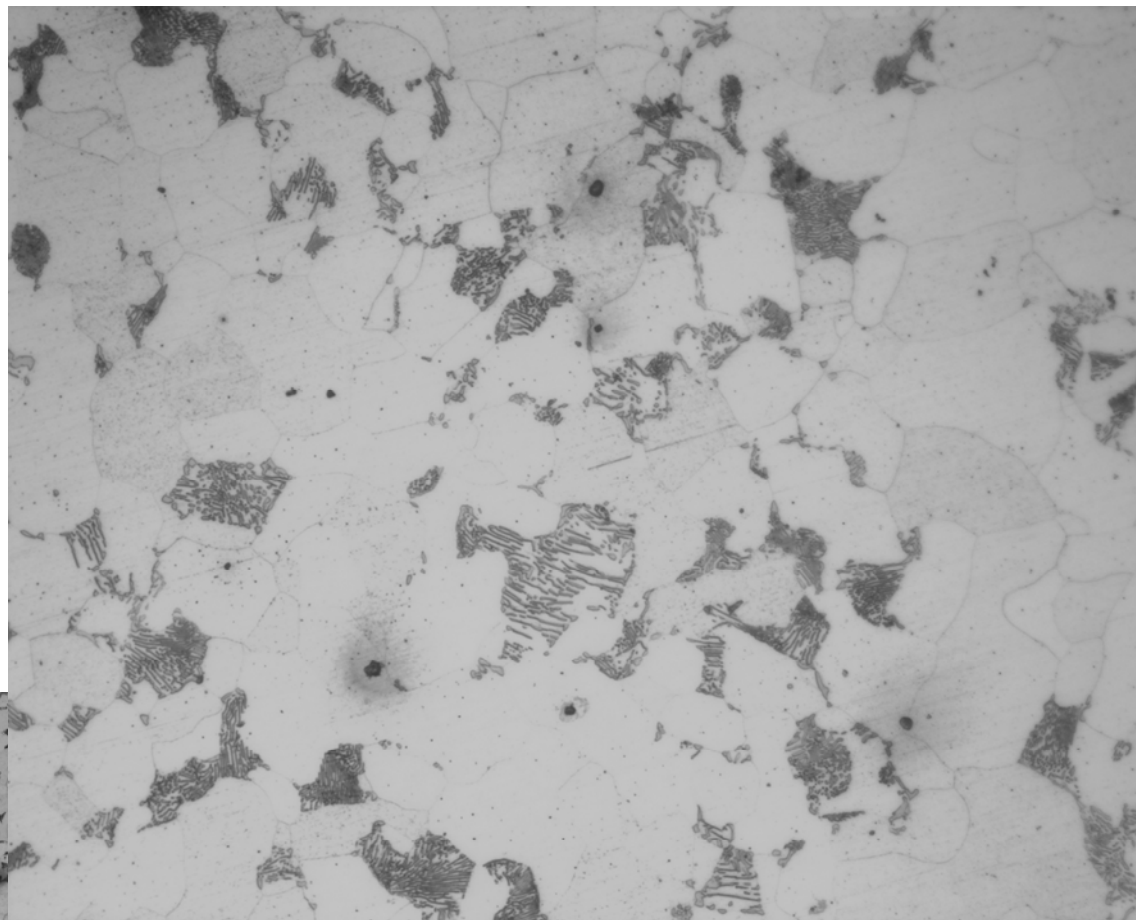
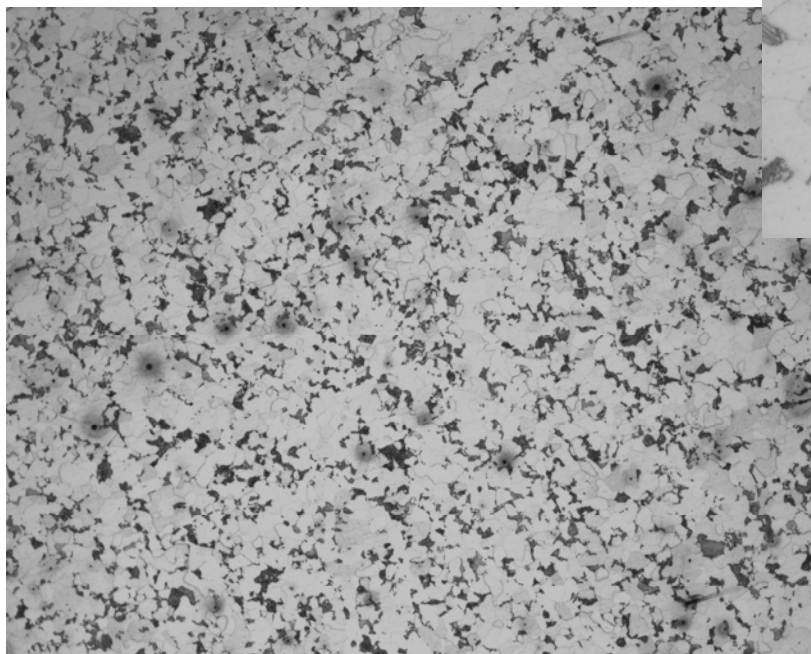


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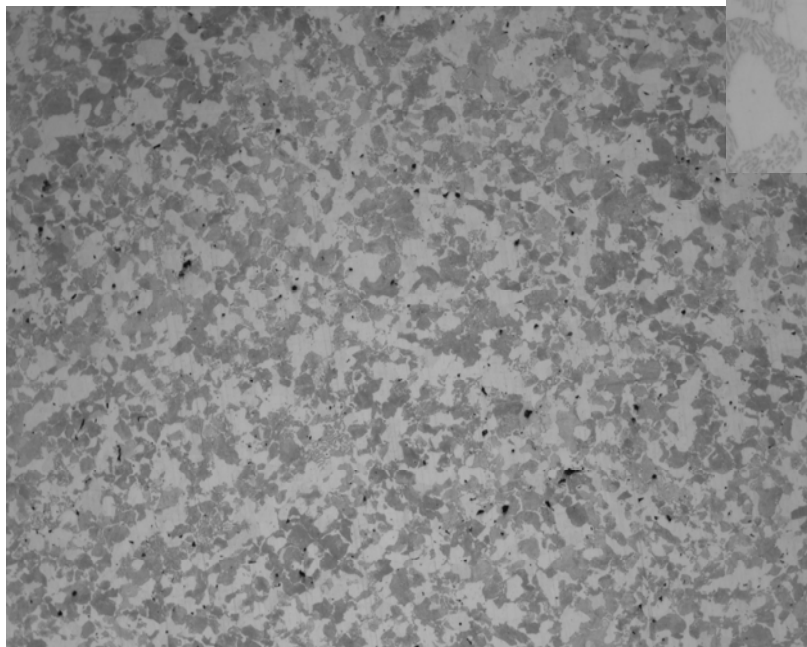
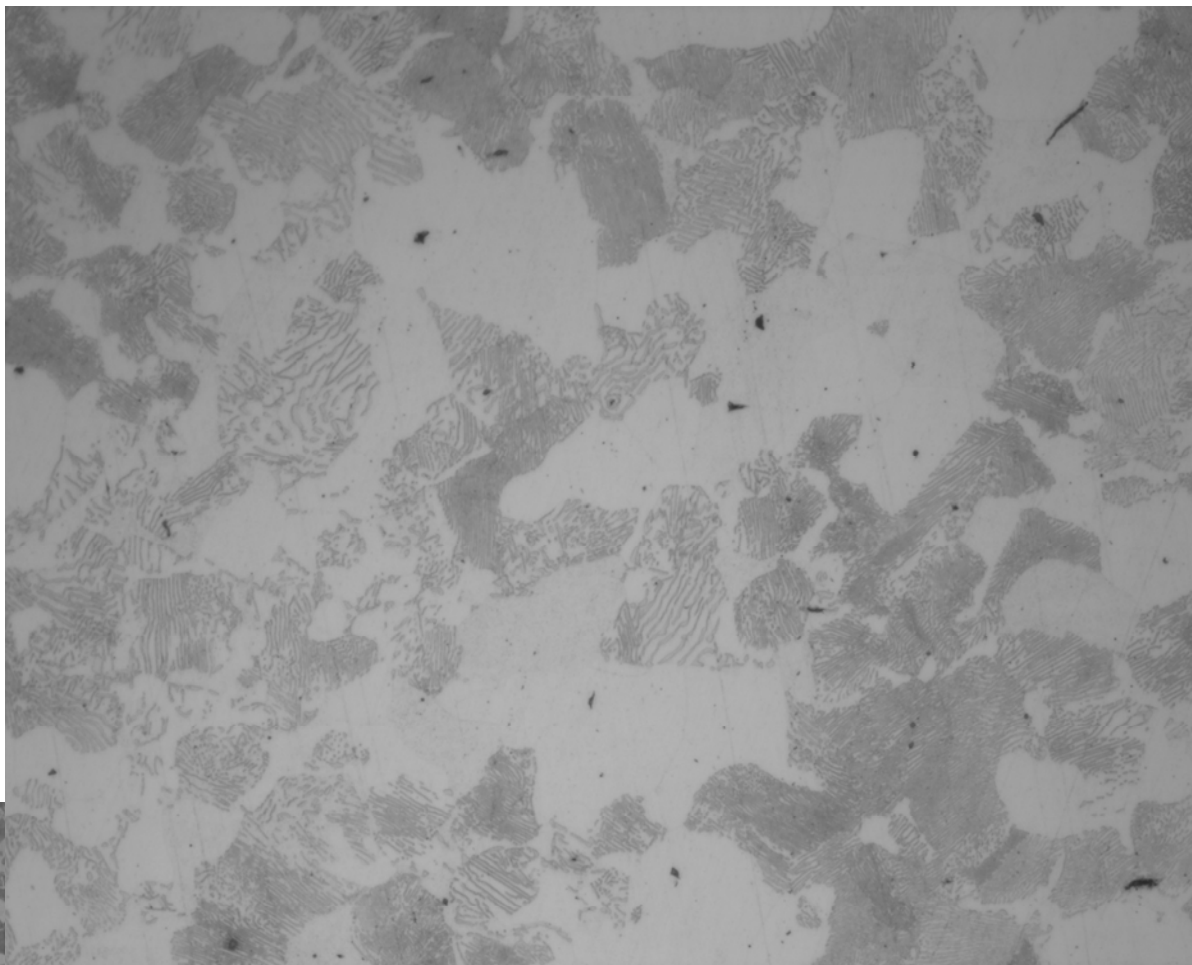


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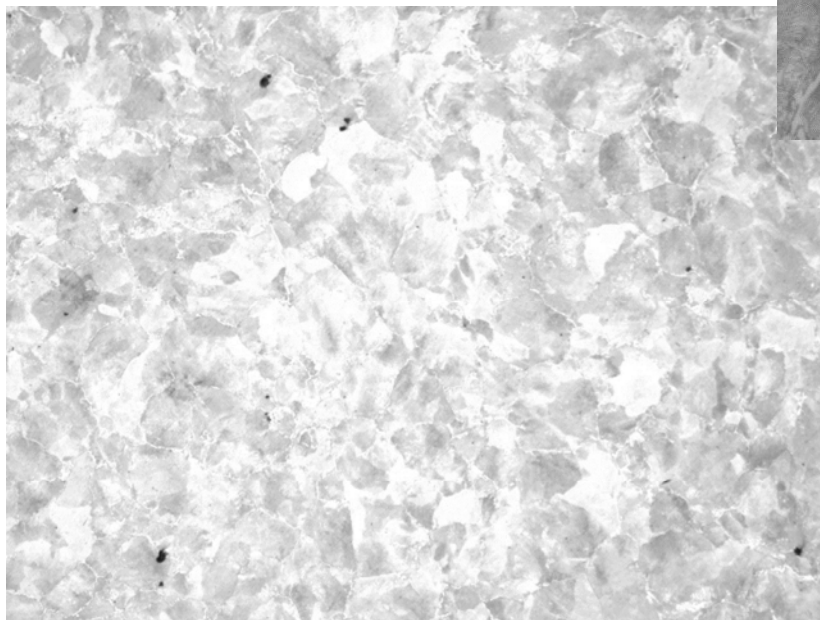




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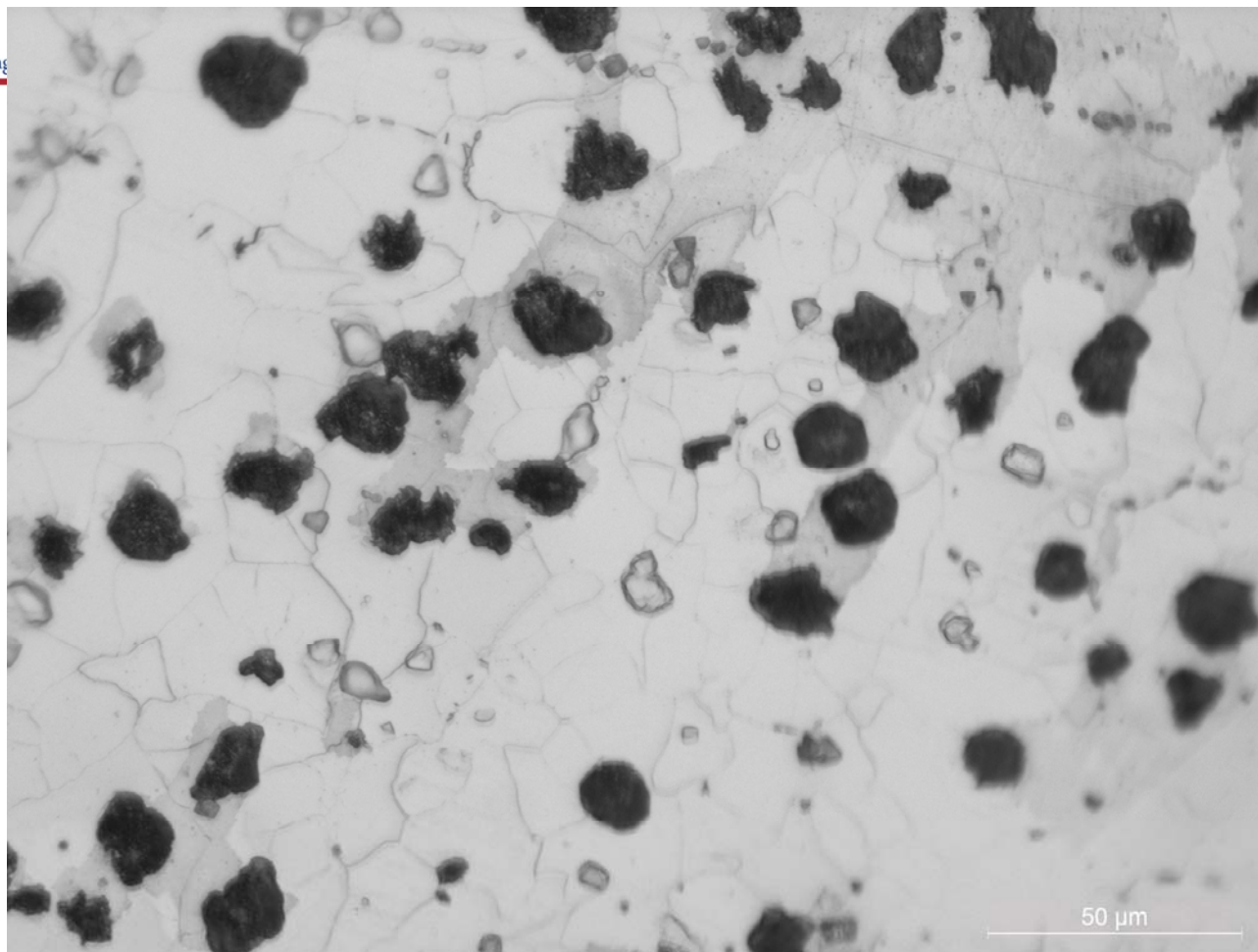


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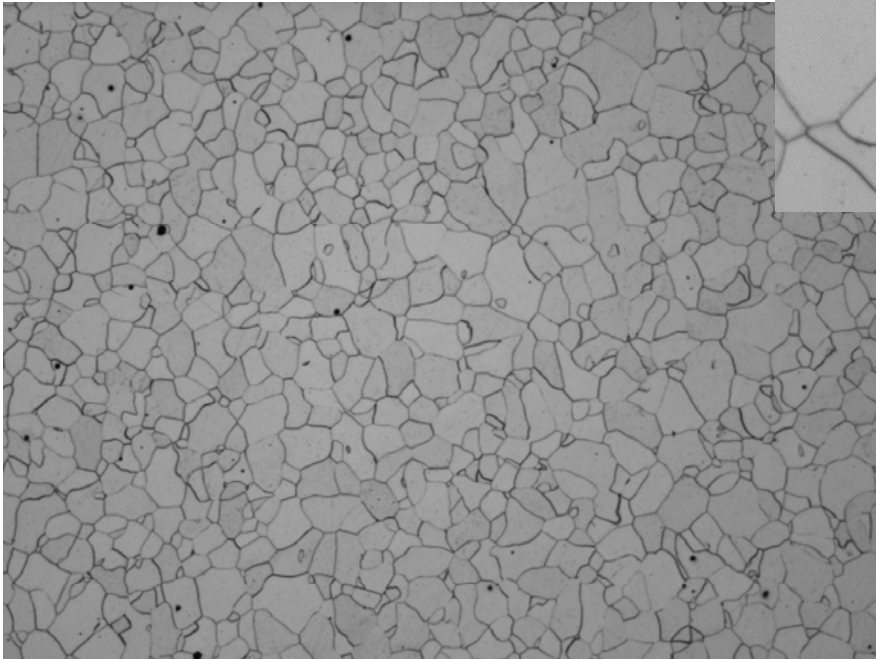
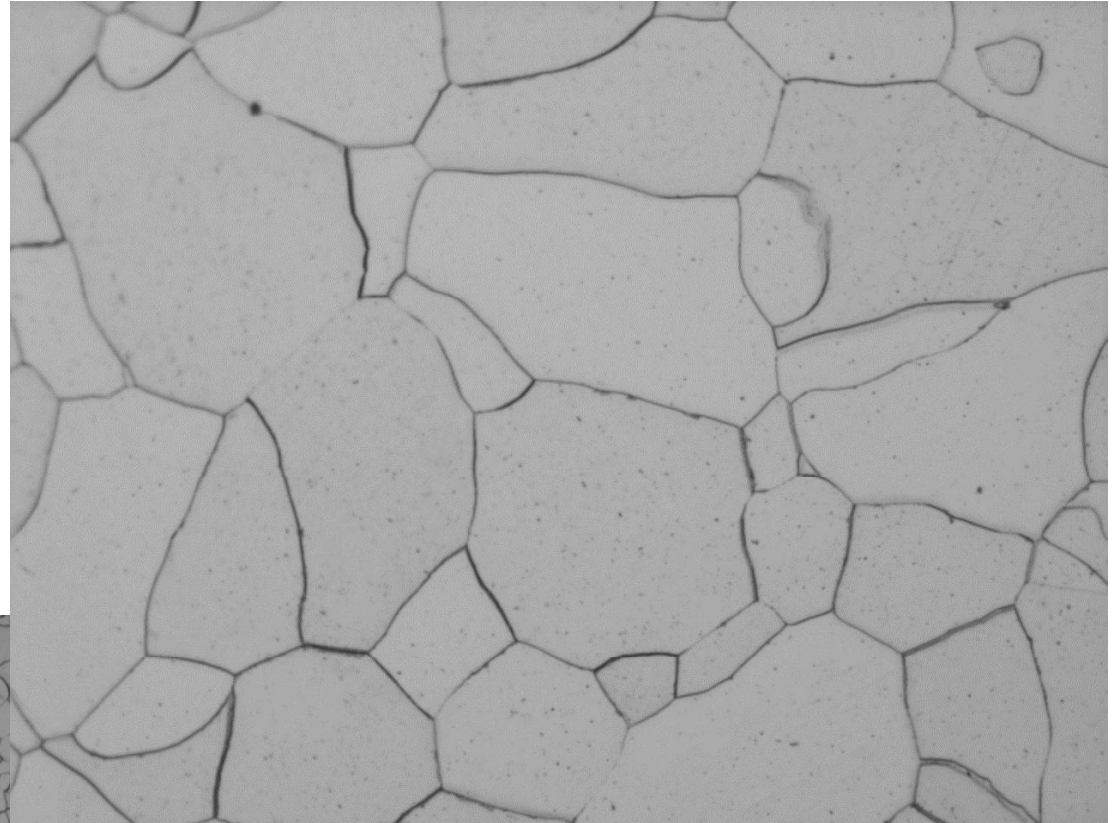


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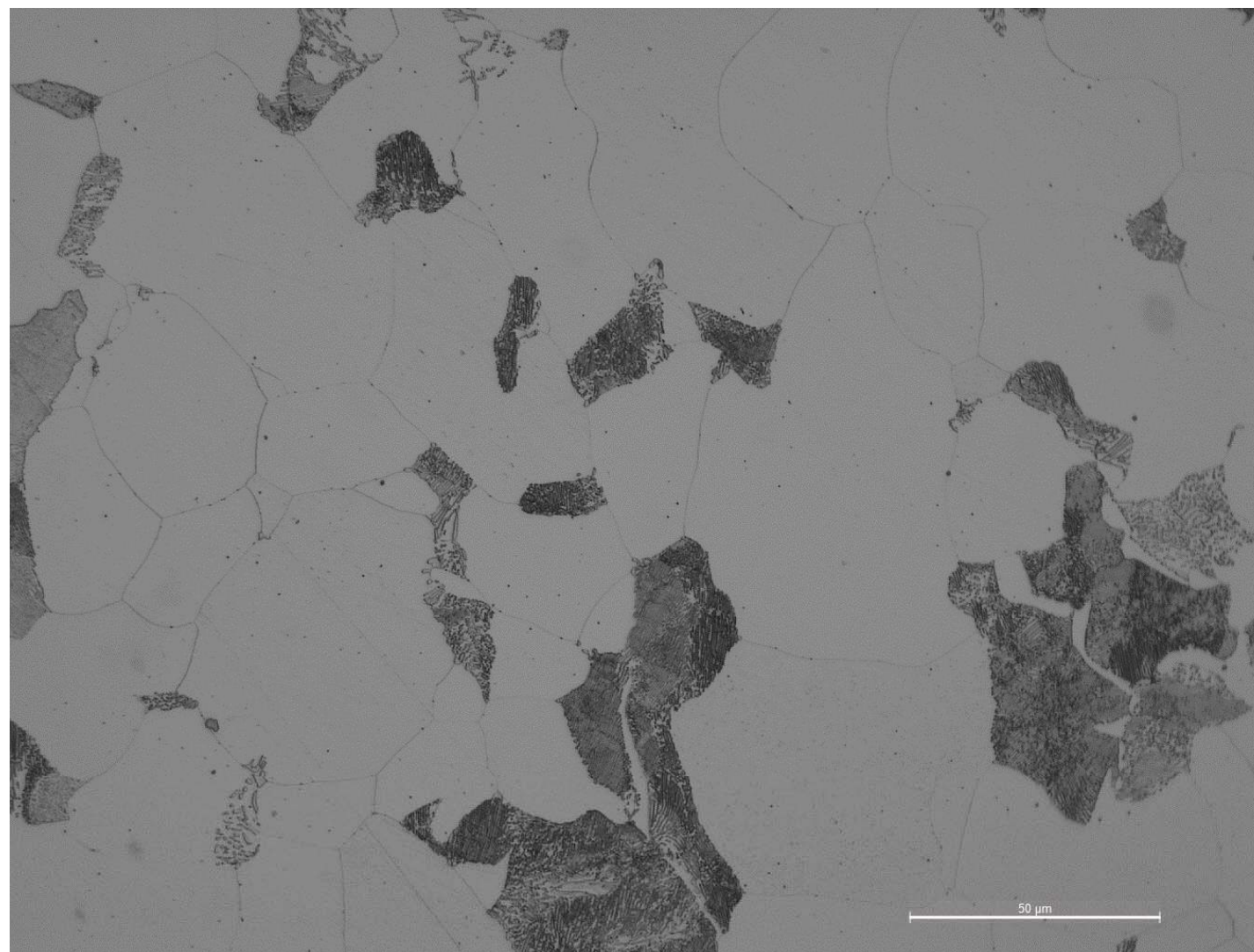


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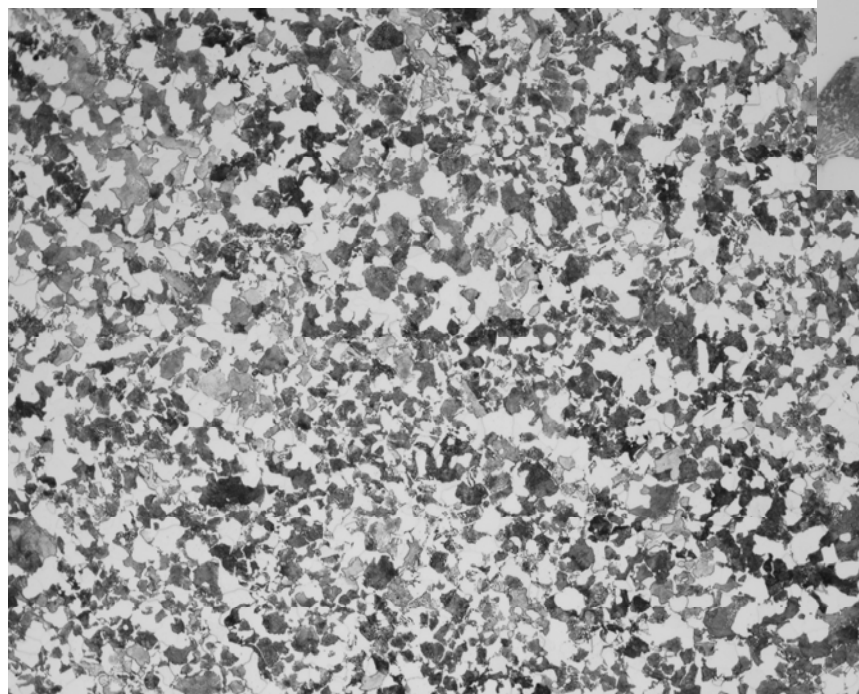
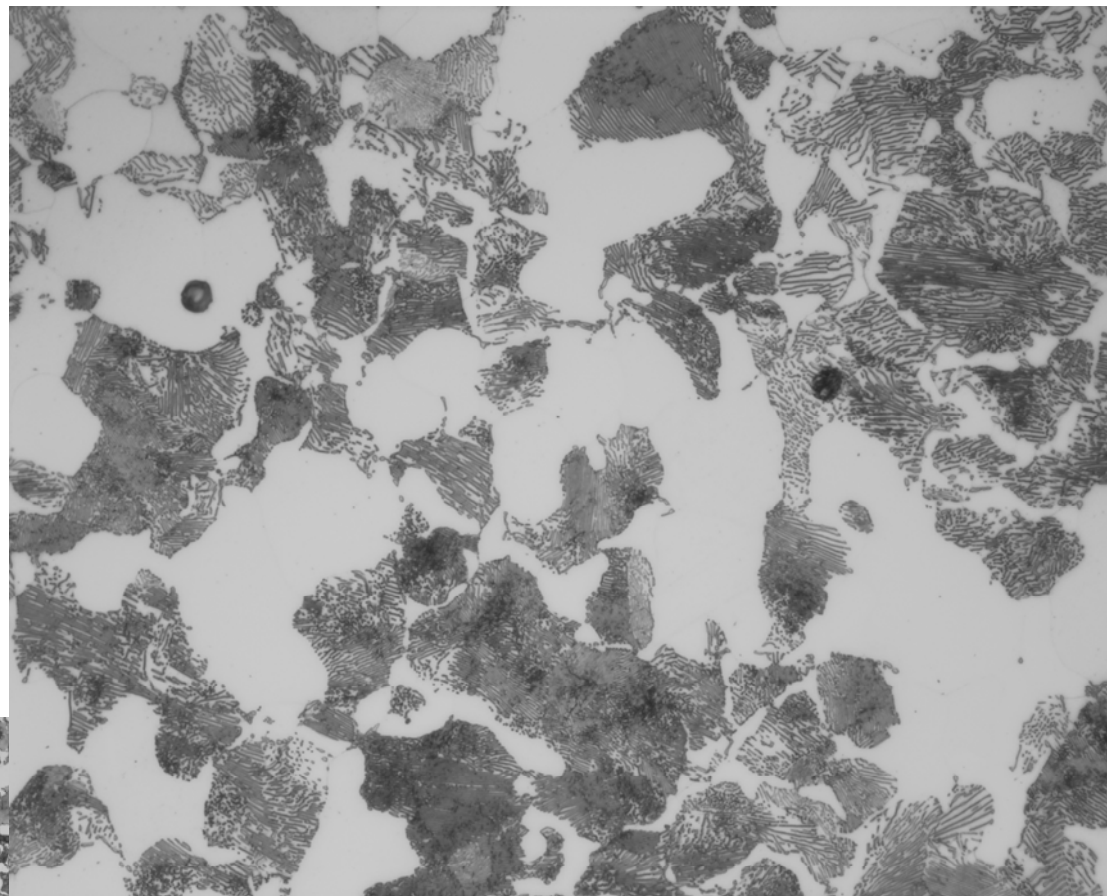


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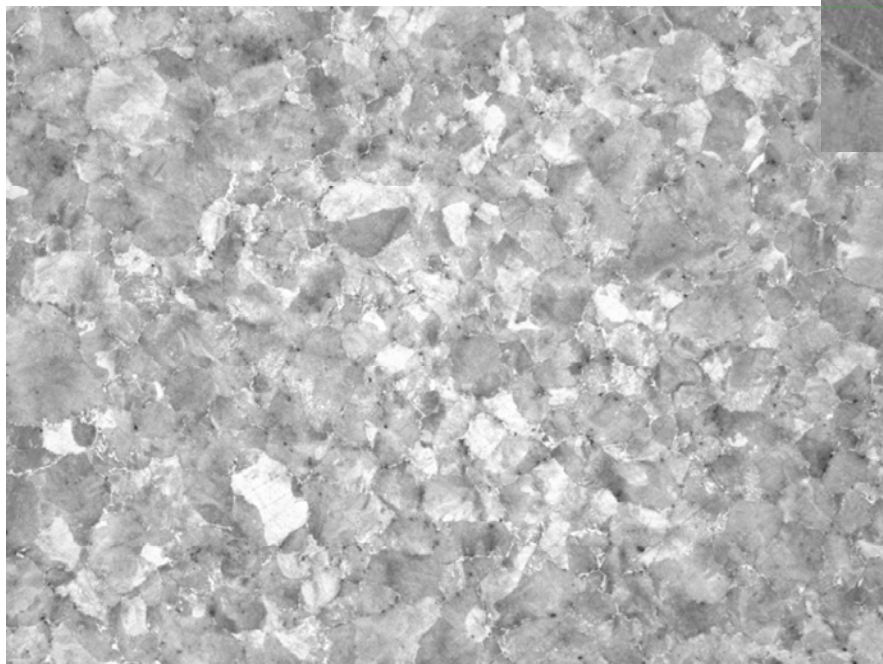
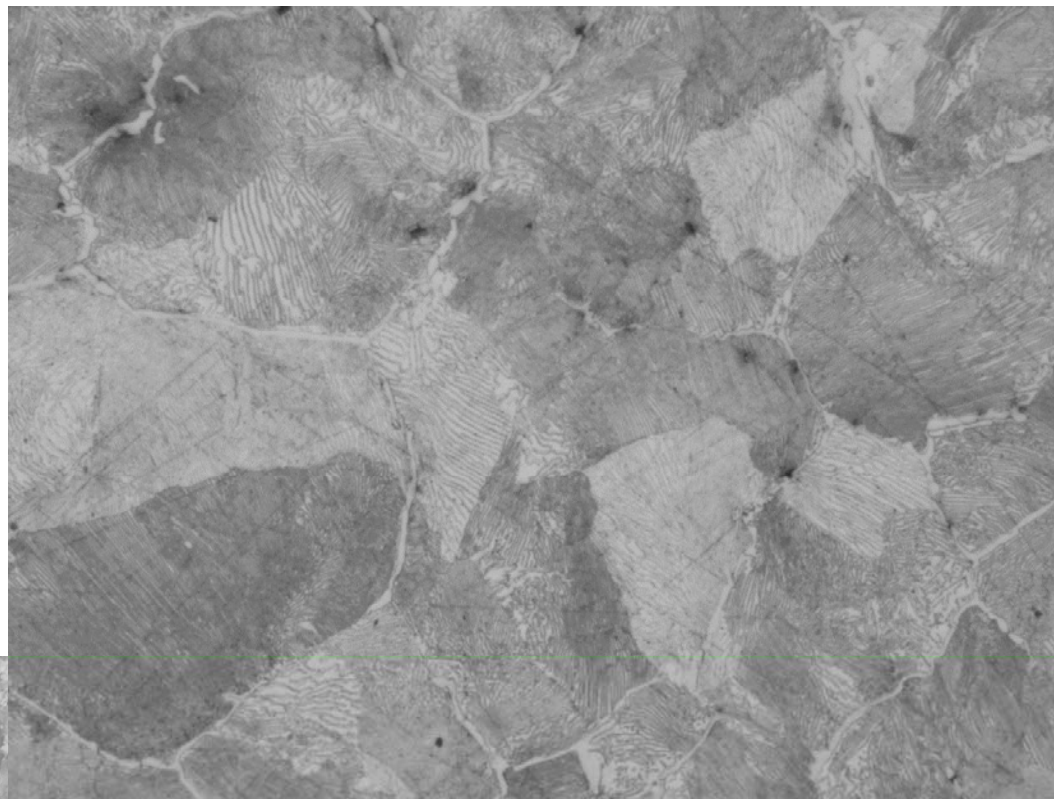


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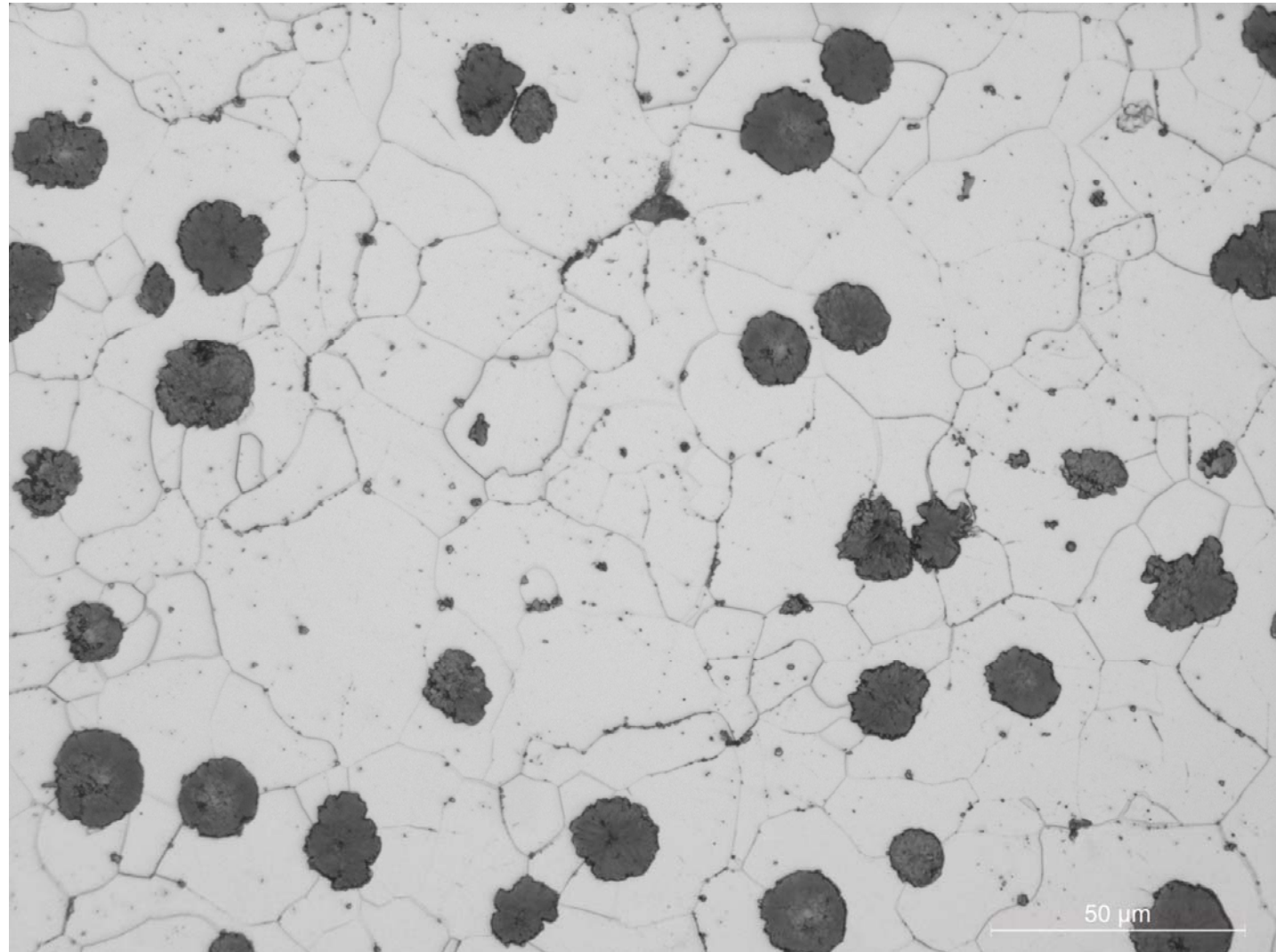


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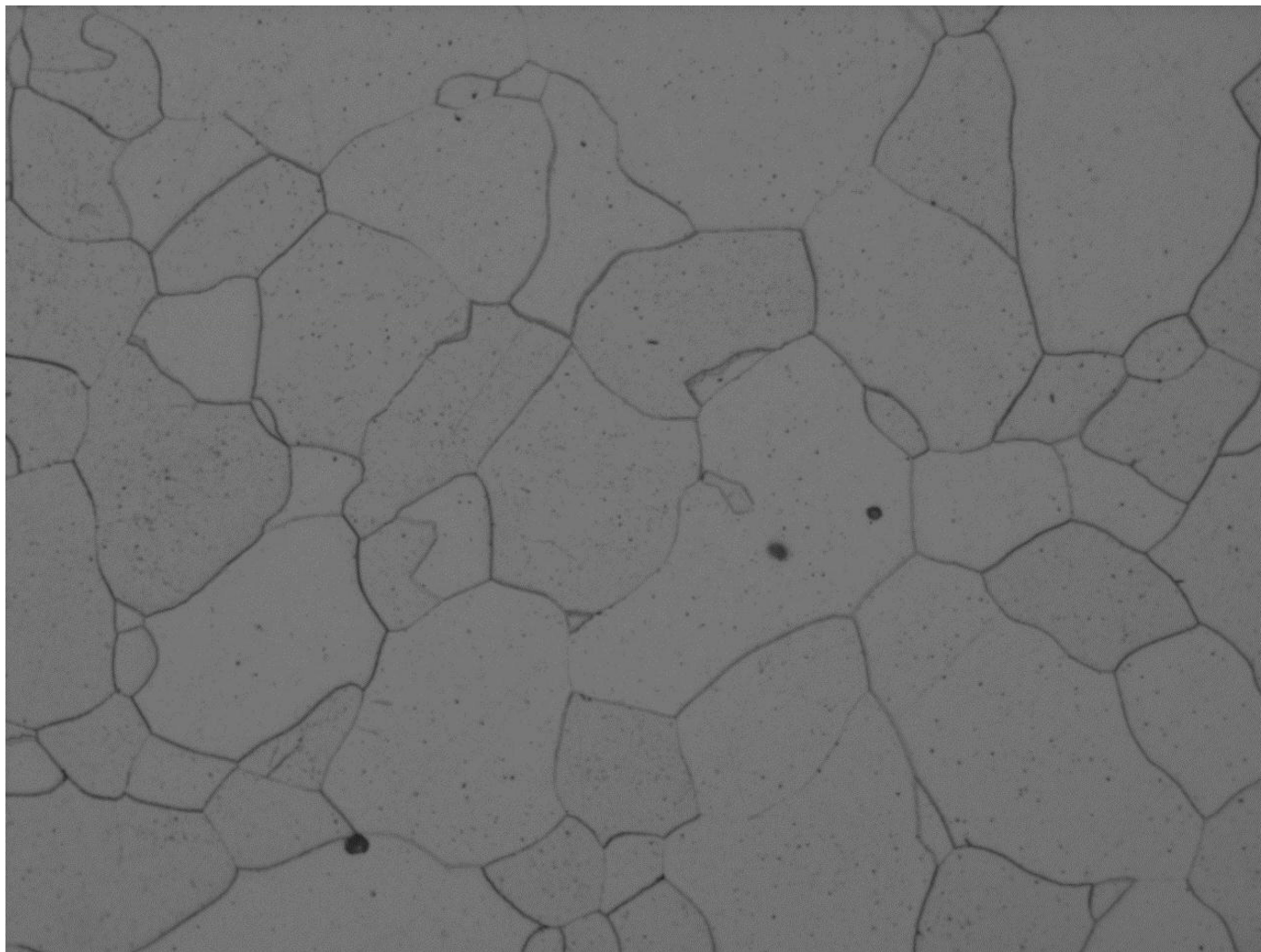


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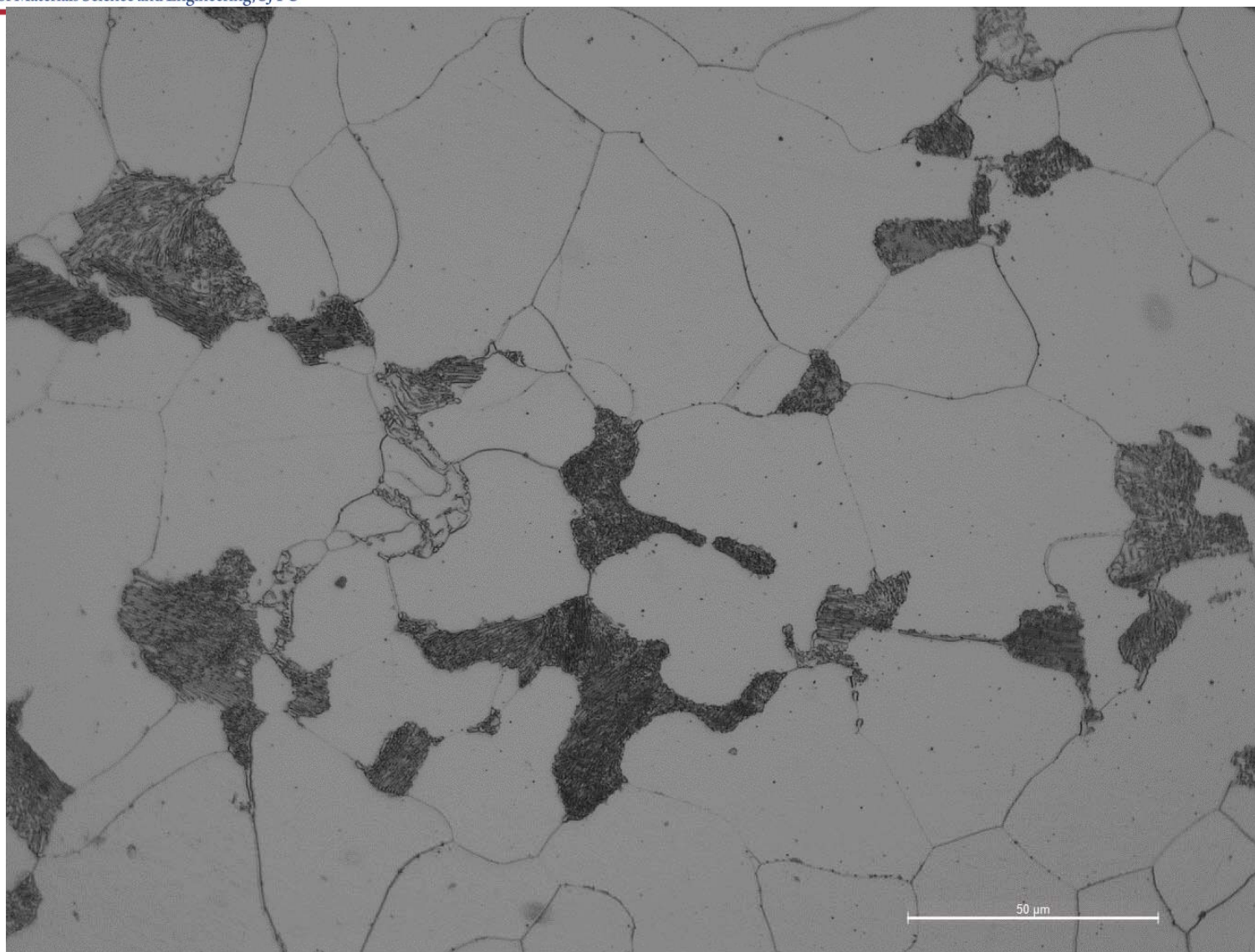


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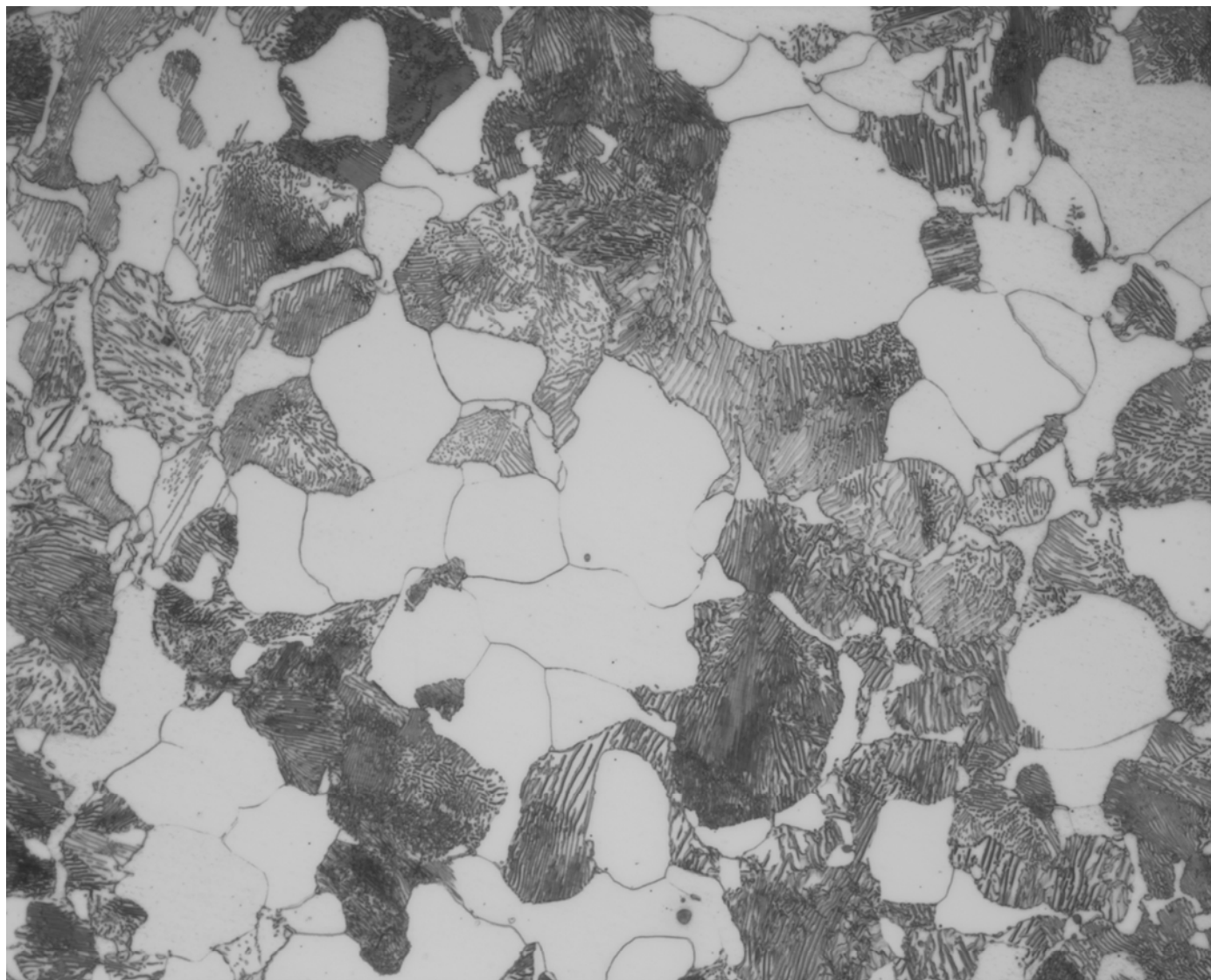


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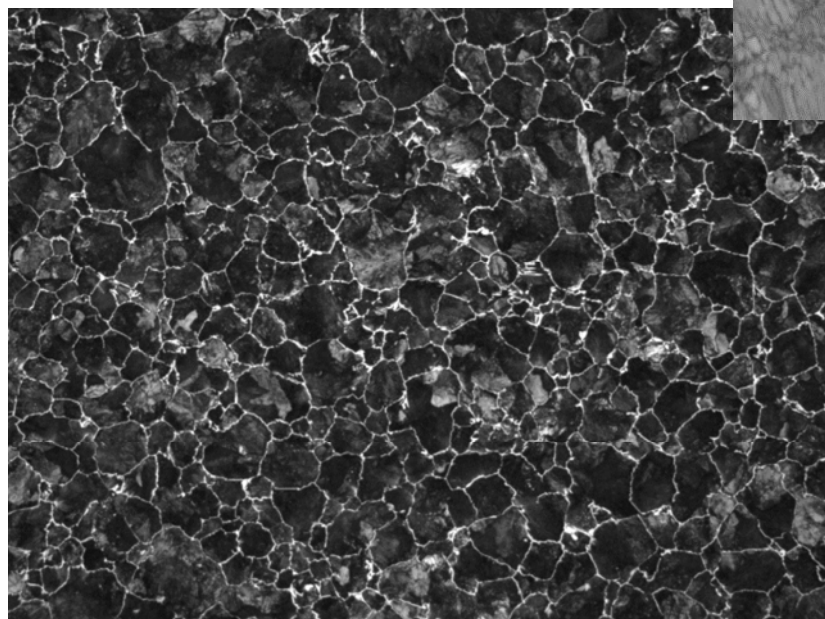
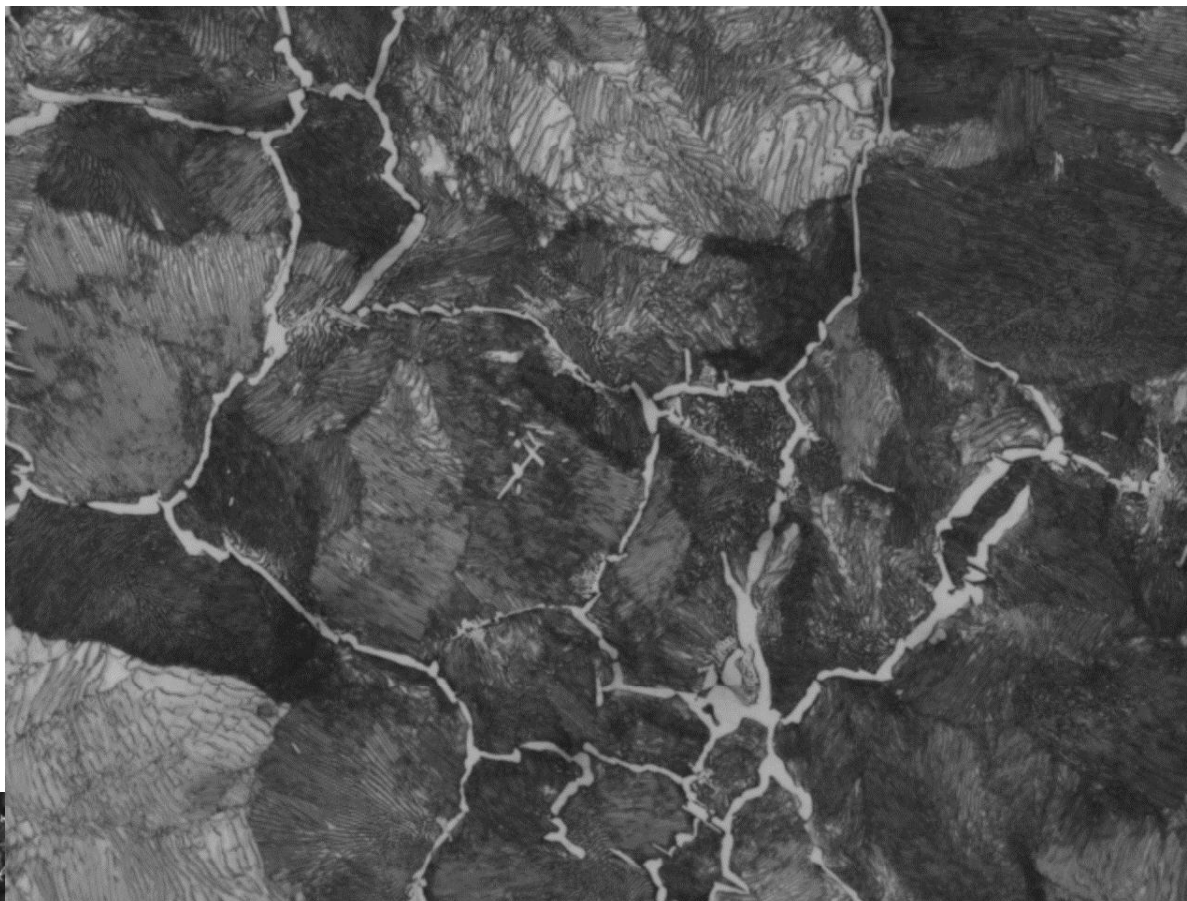


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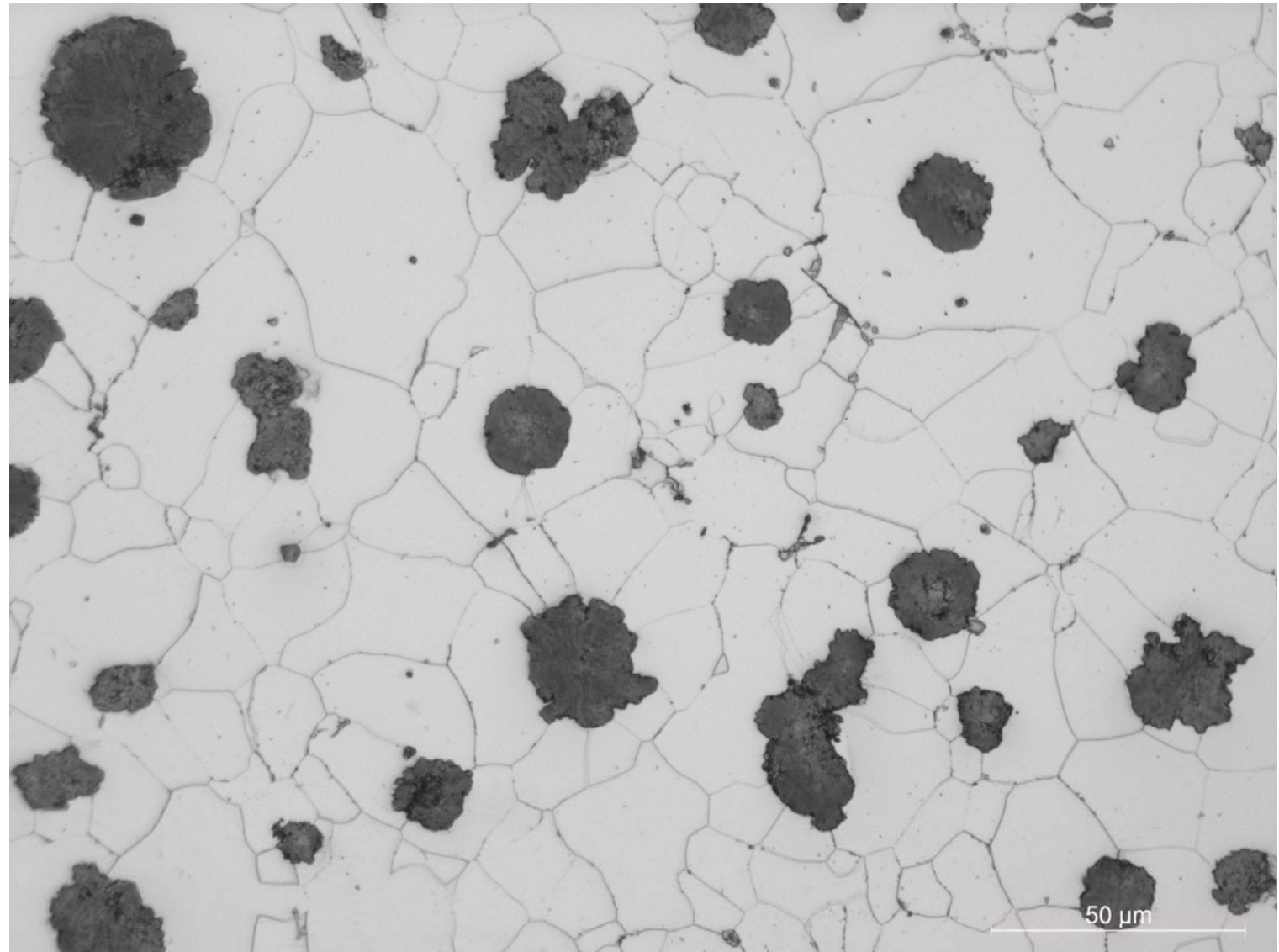


50.5





50.5



小结（规则补充说明）

假象的判定：

腐蚀过度（如晶界粗化，双眼皮），或不够

麻点，氧化斑点

夹杂物拖拽

变形层

嵌入外来粒子

水渍

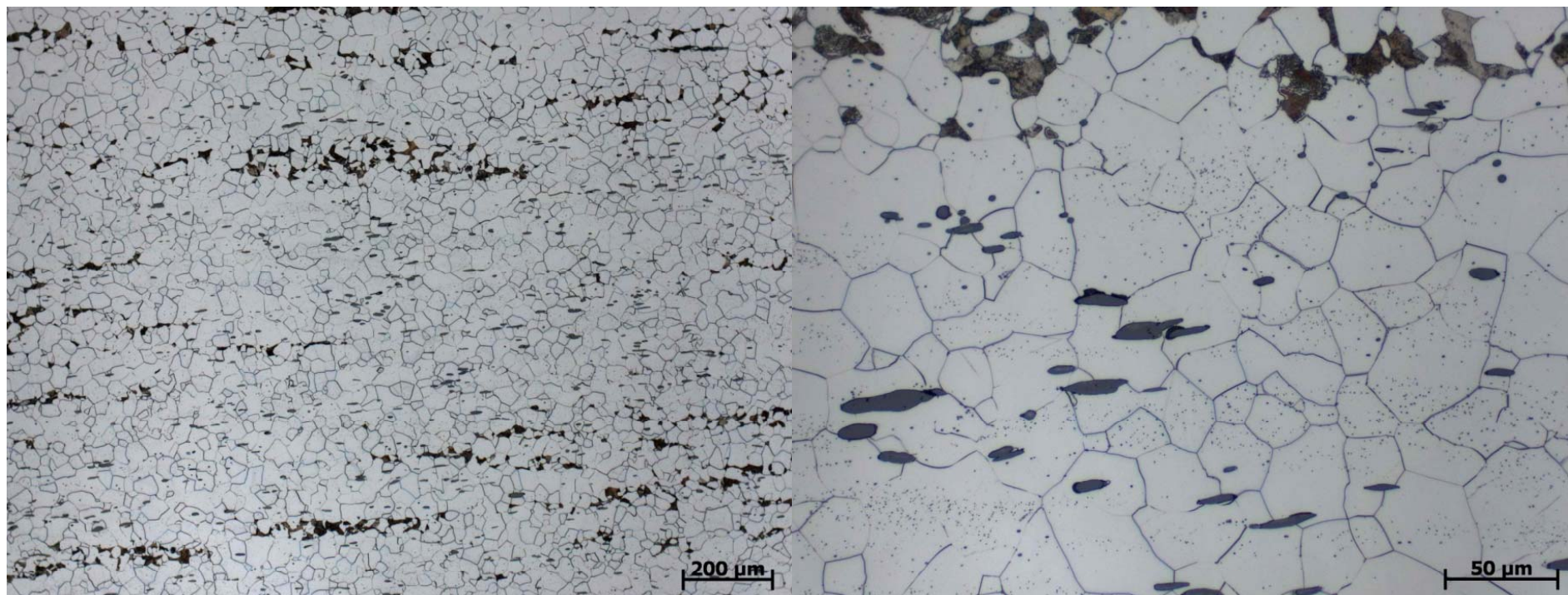
表面不平整

（划痕）





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主要内容

● 本届大赛图像评分细则图解

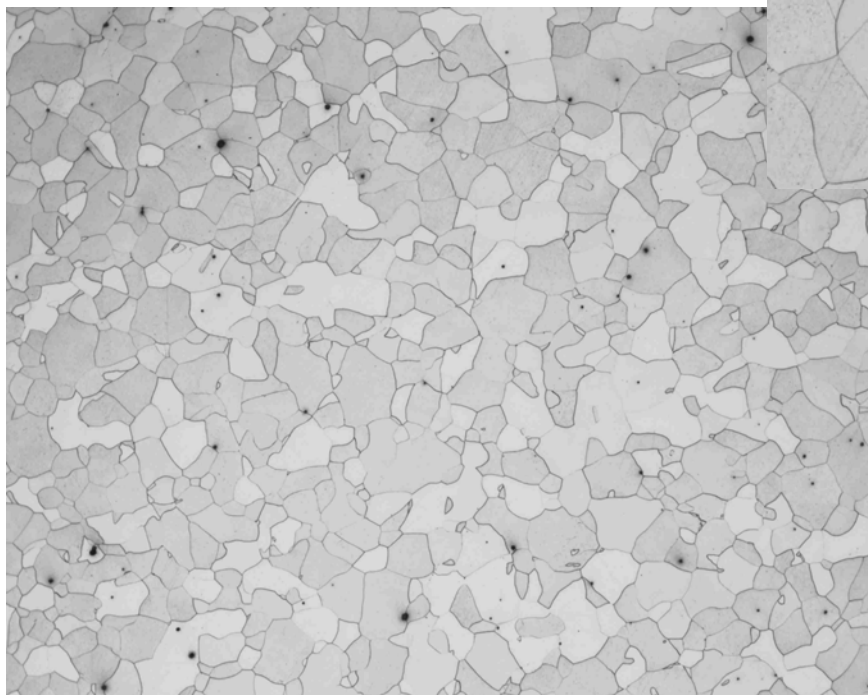
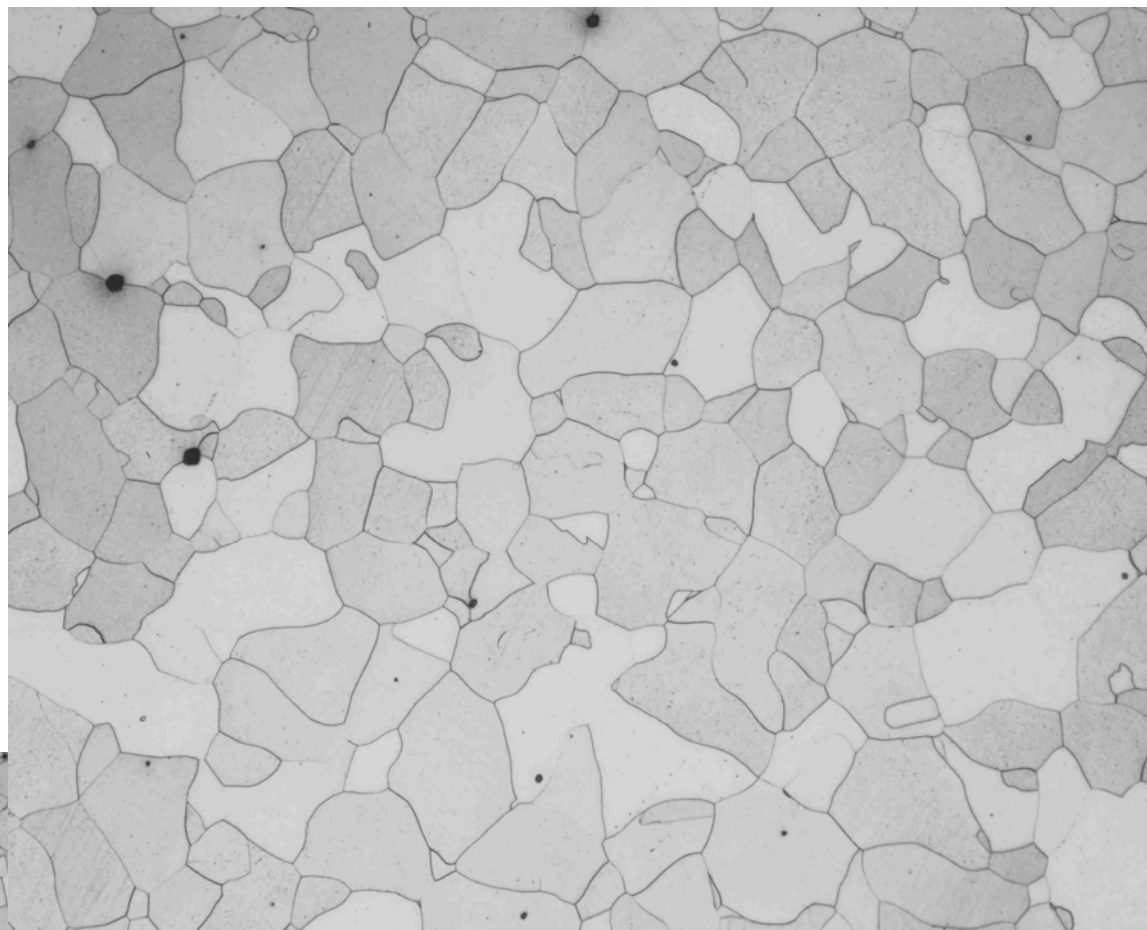
● **本届大赛样品分析**

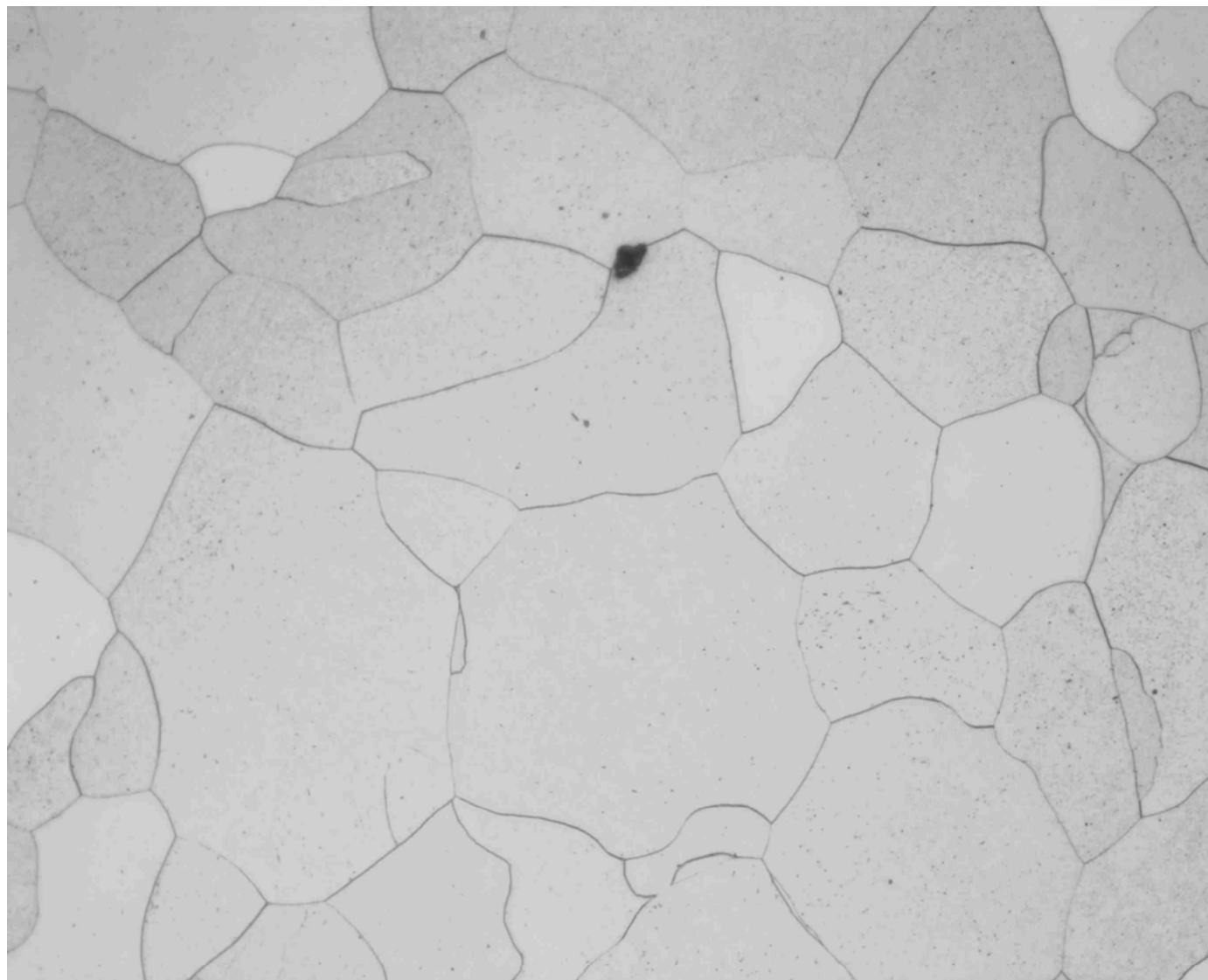
● 试评（纯铁）





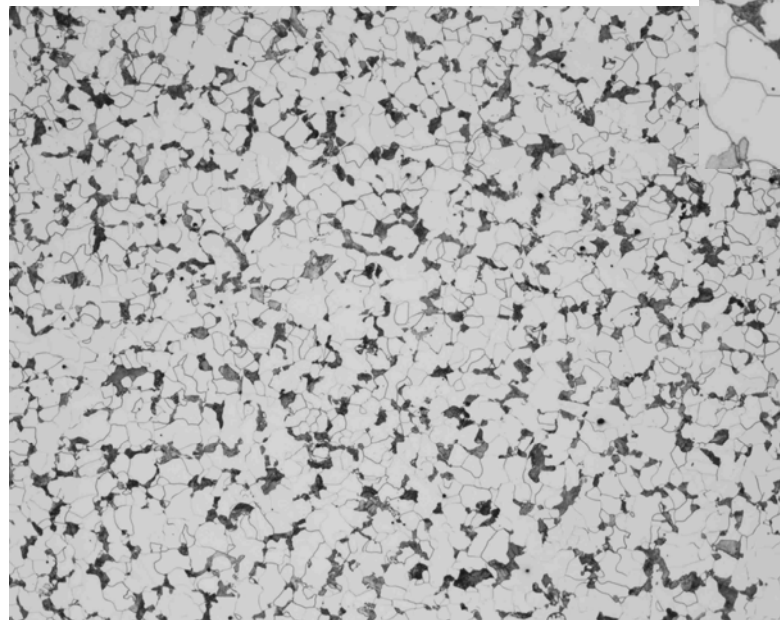
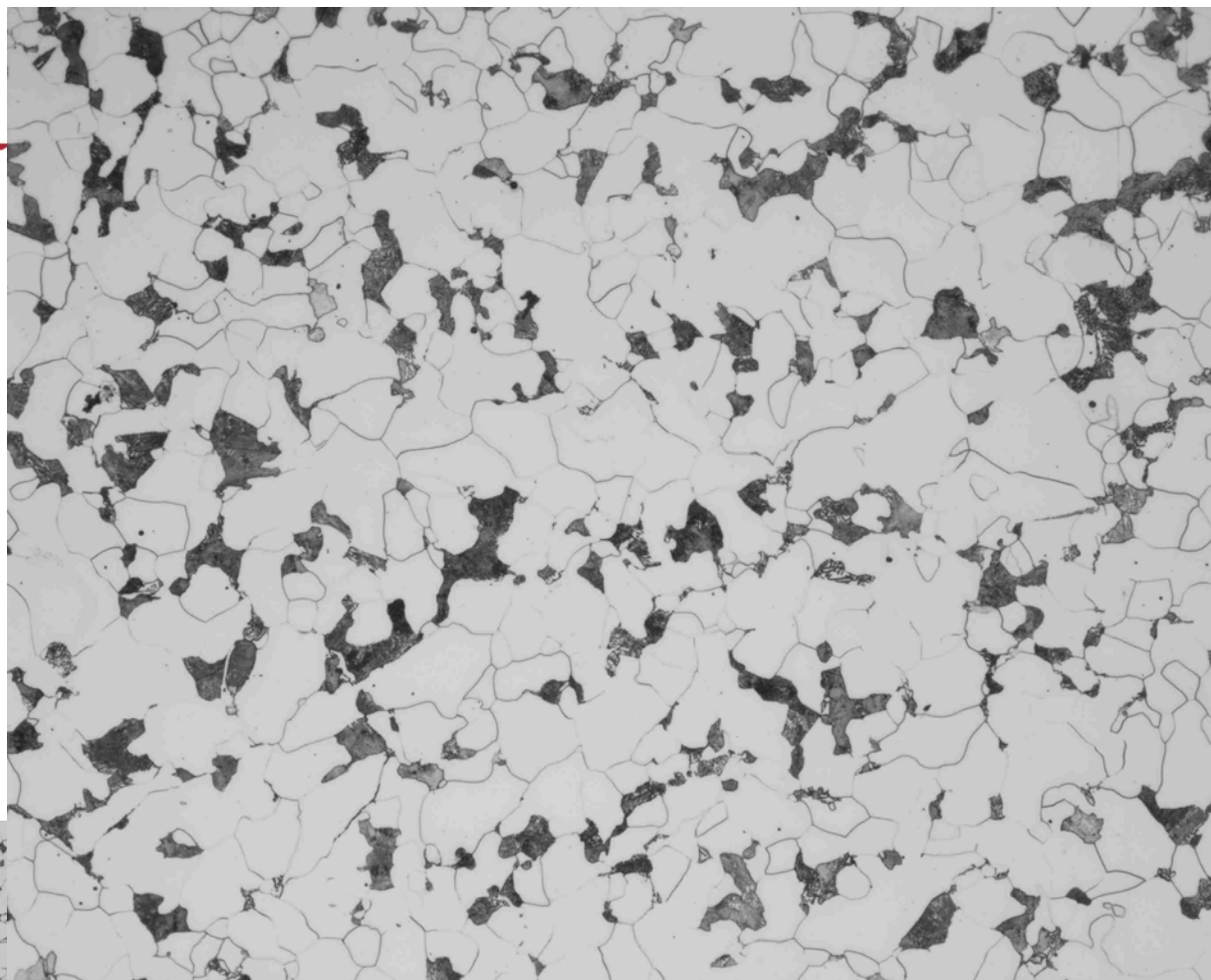
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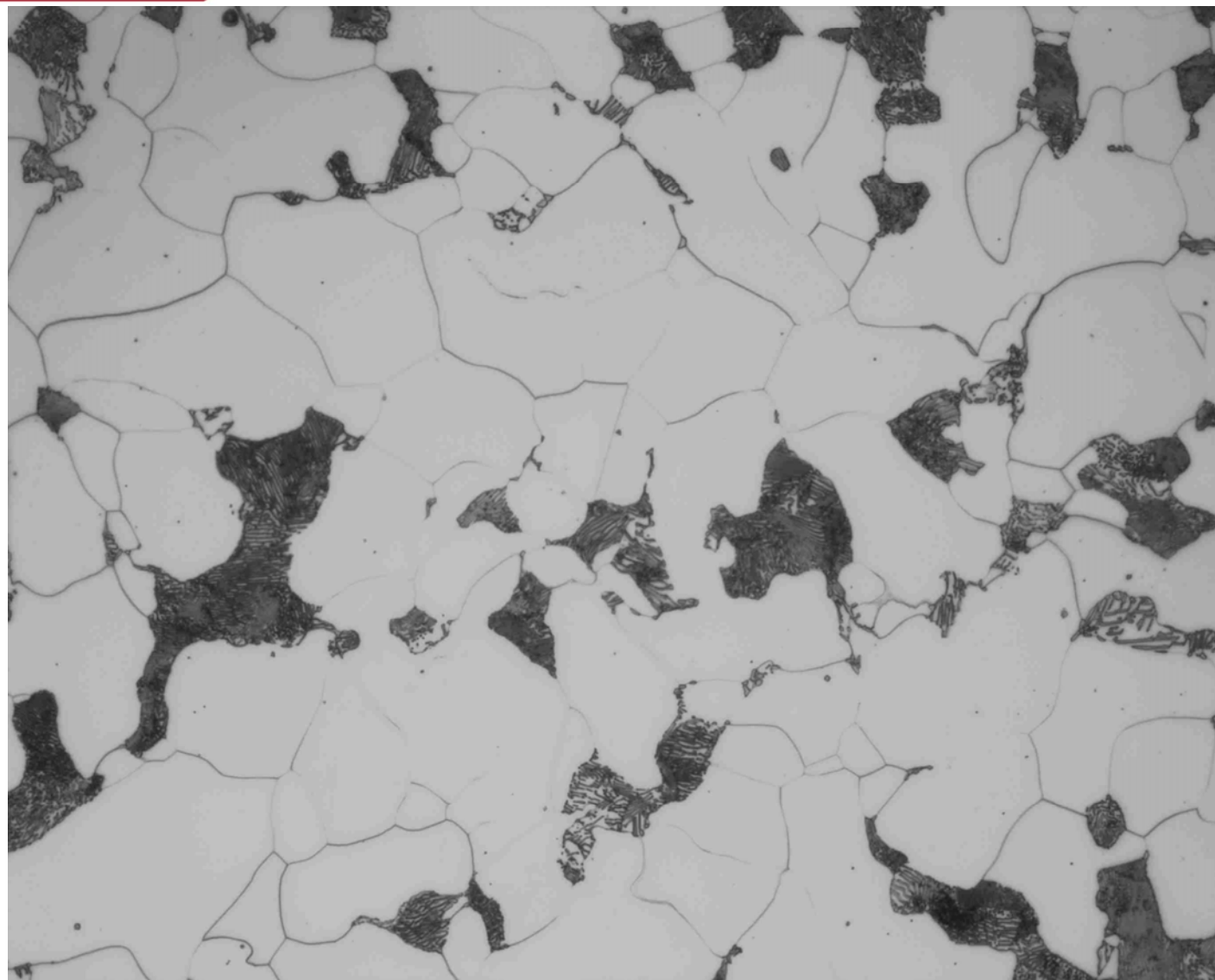






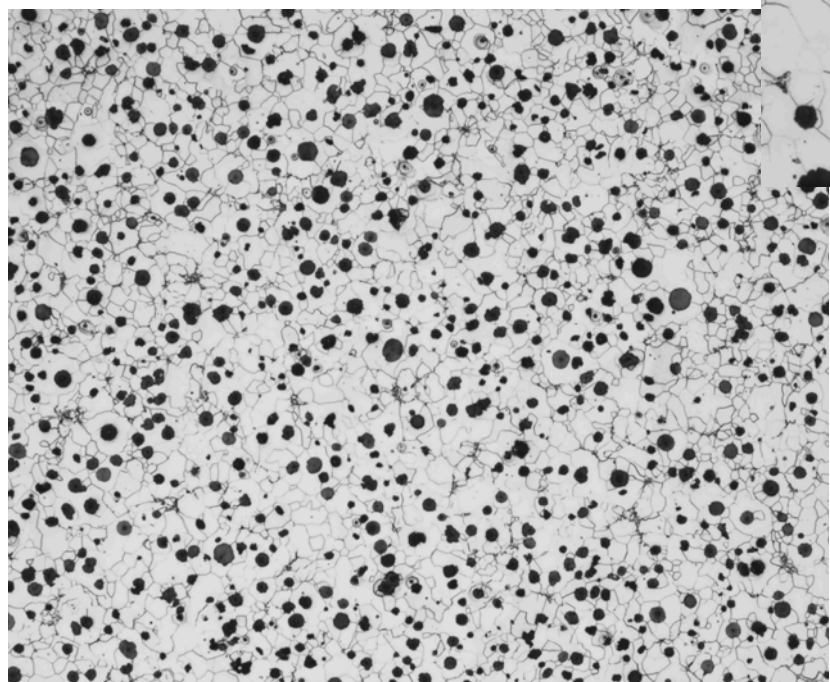
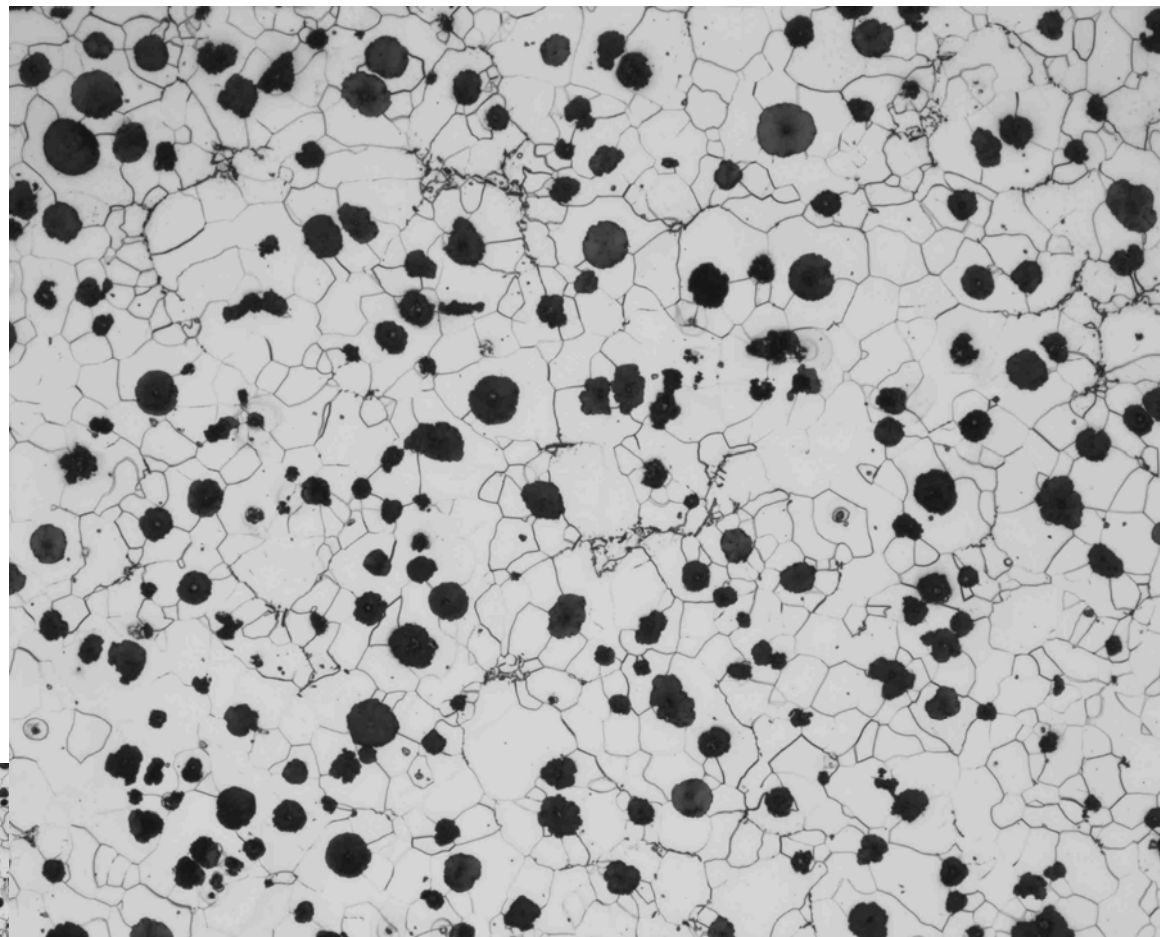
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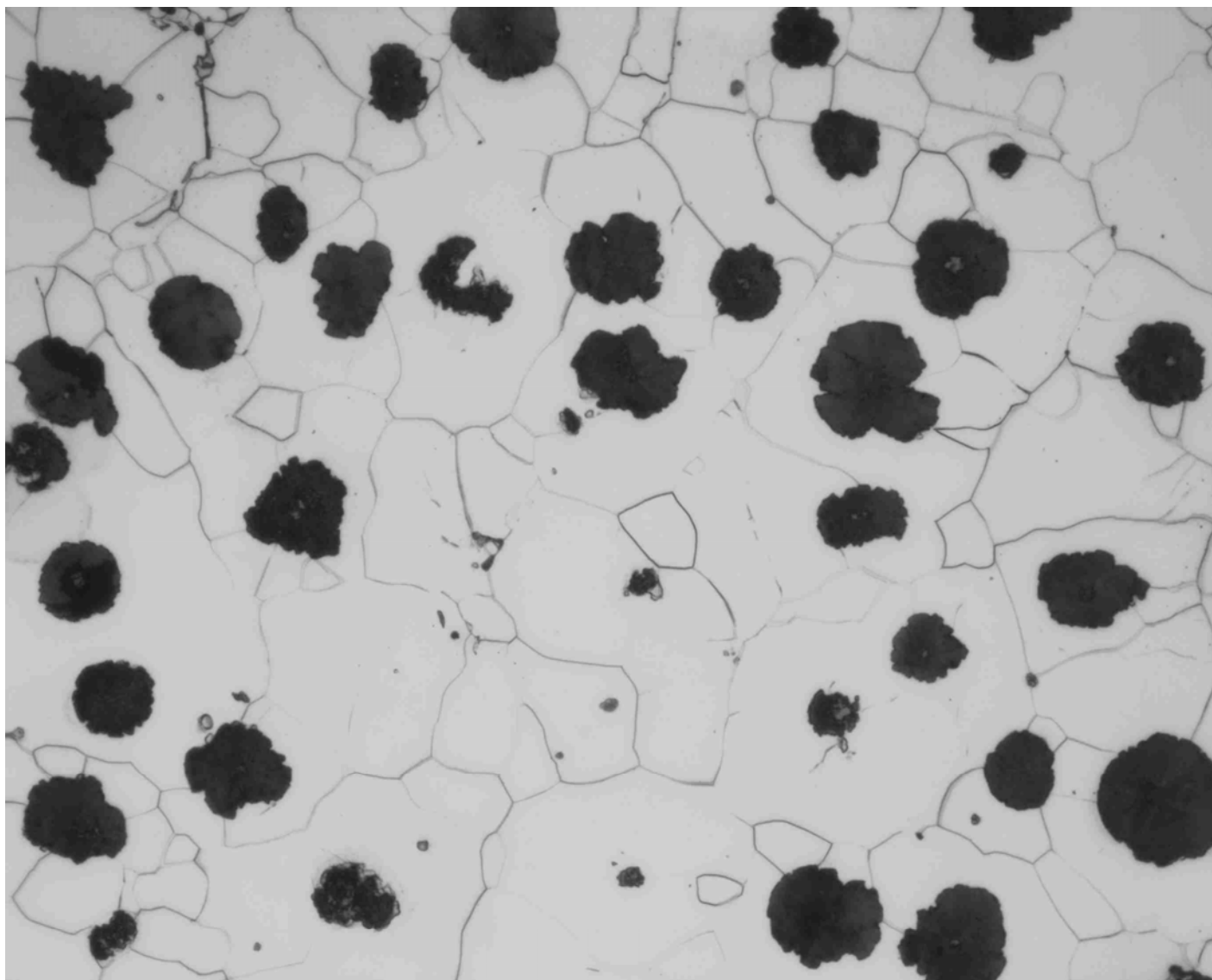


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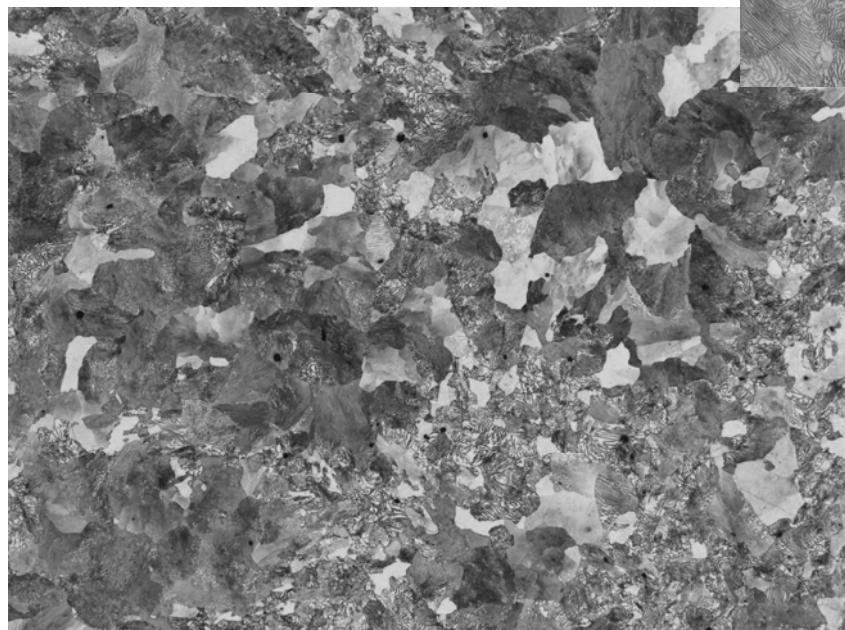
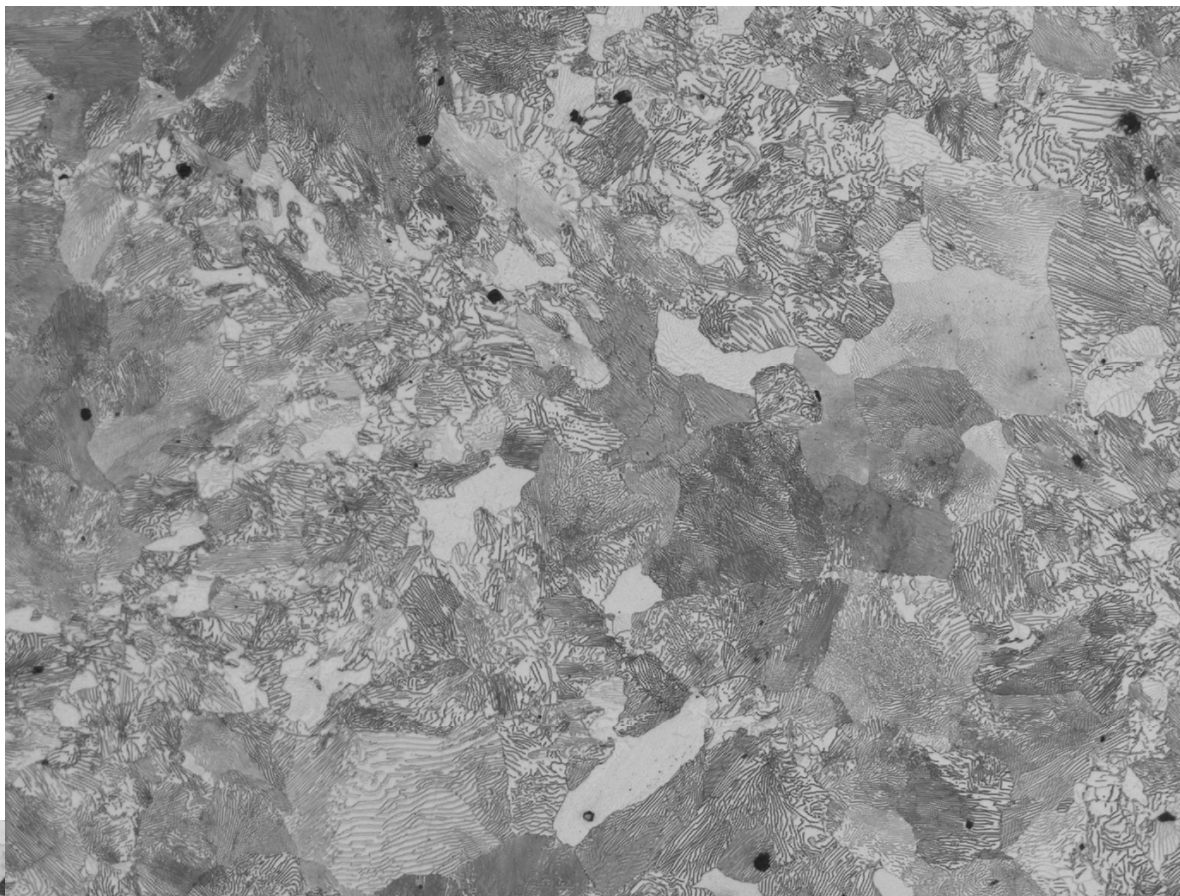


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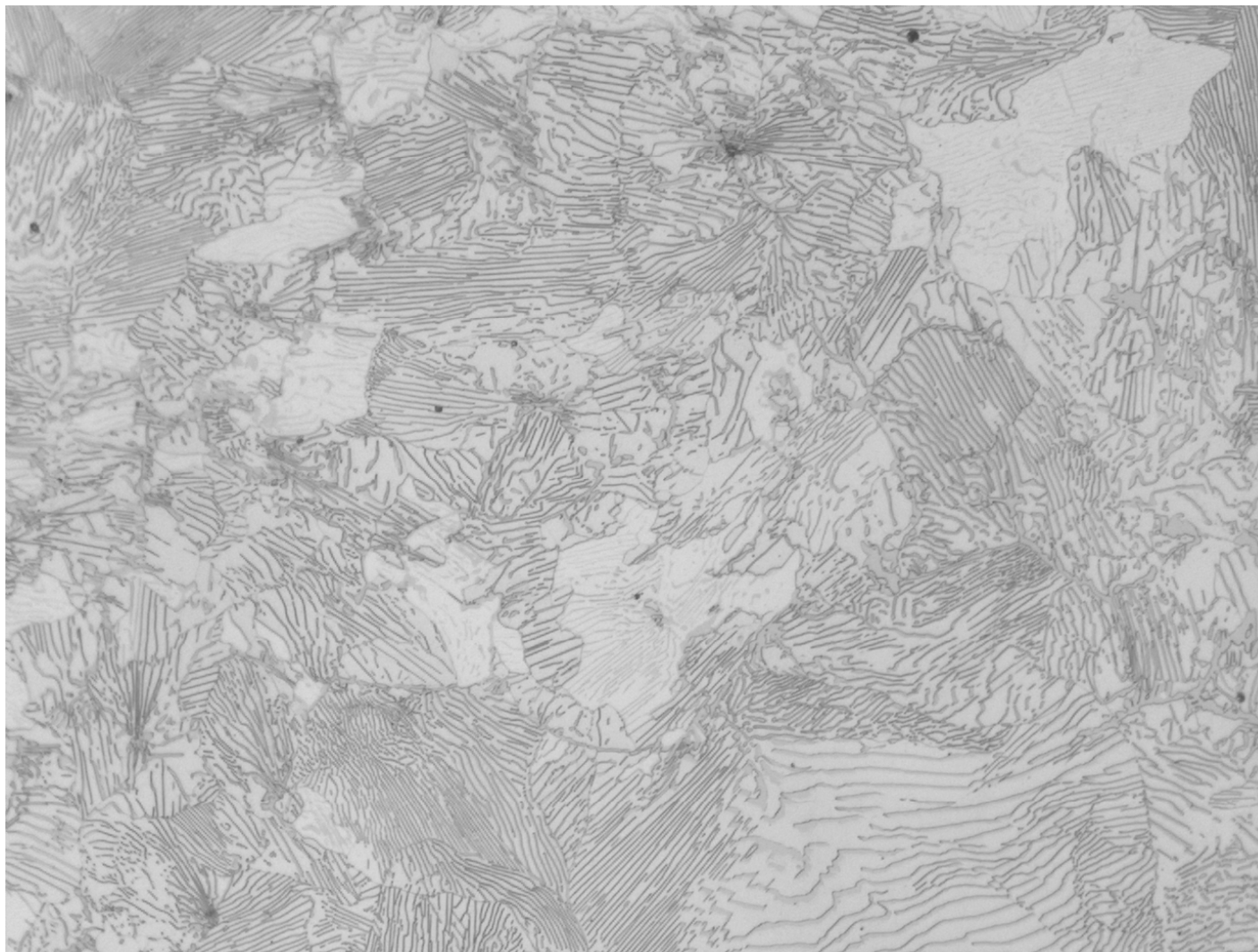


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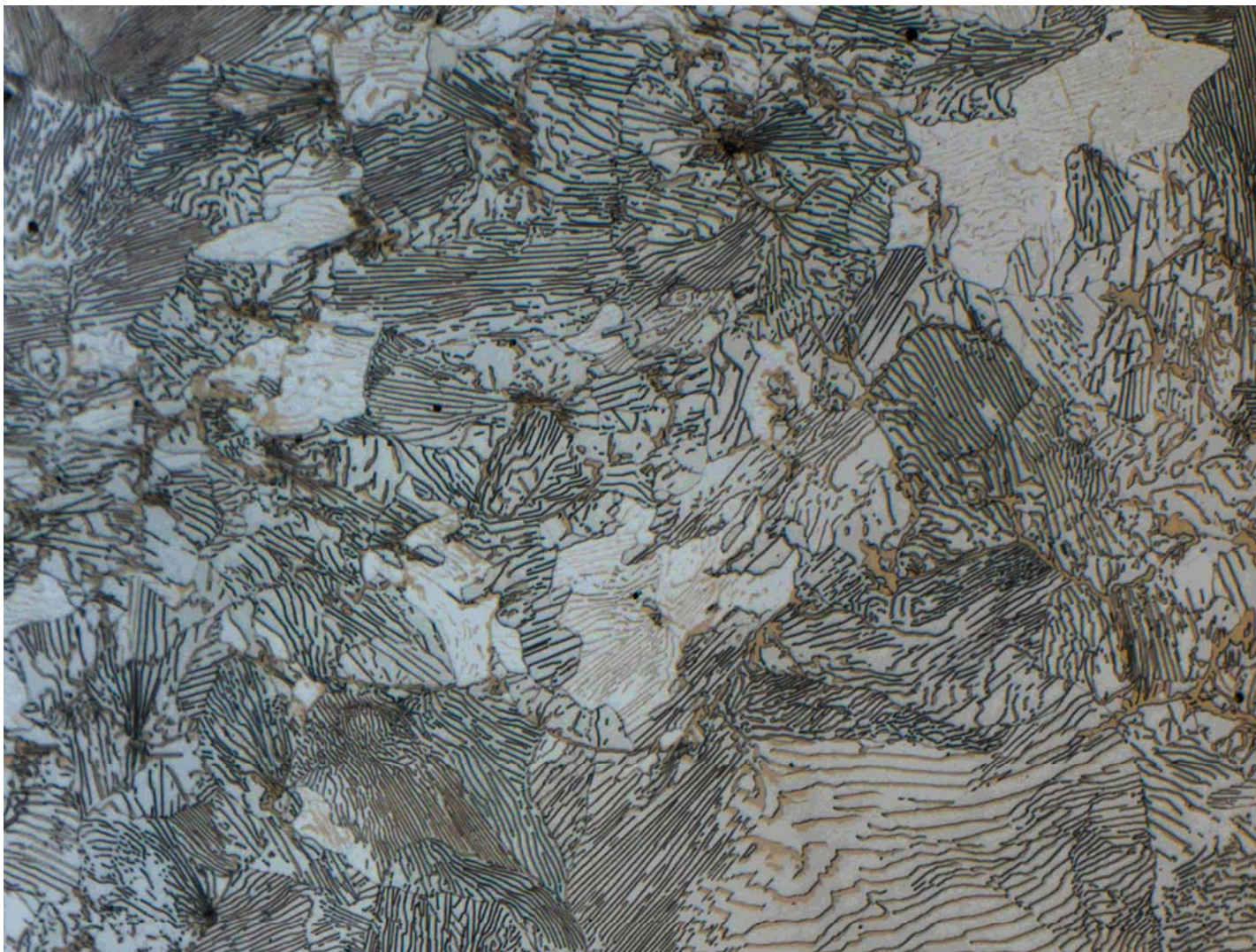


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主要内容

● 本届大赛图像评分细则图解

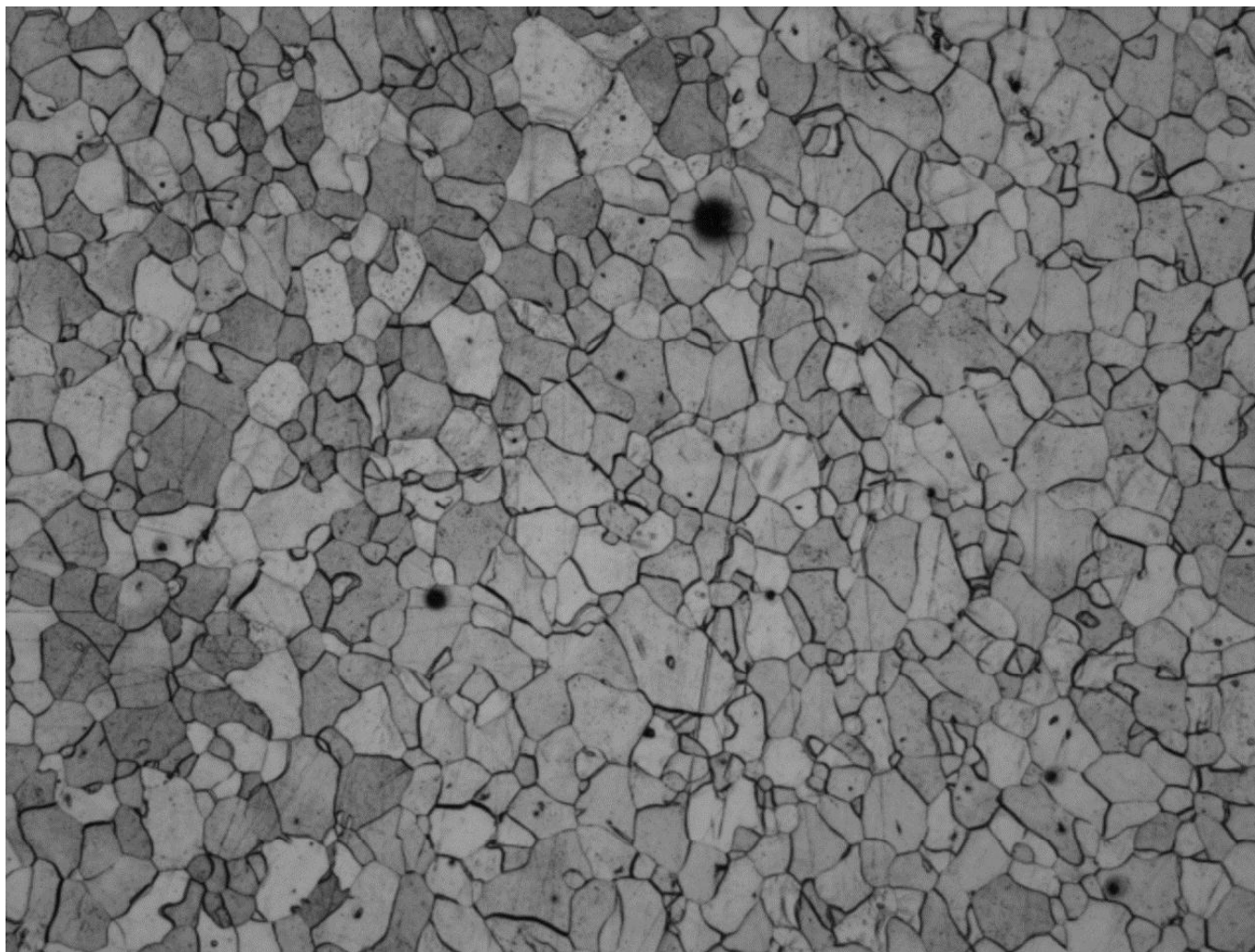
● 本届大赛样品分析

● **试评（纯铁）**





试评分

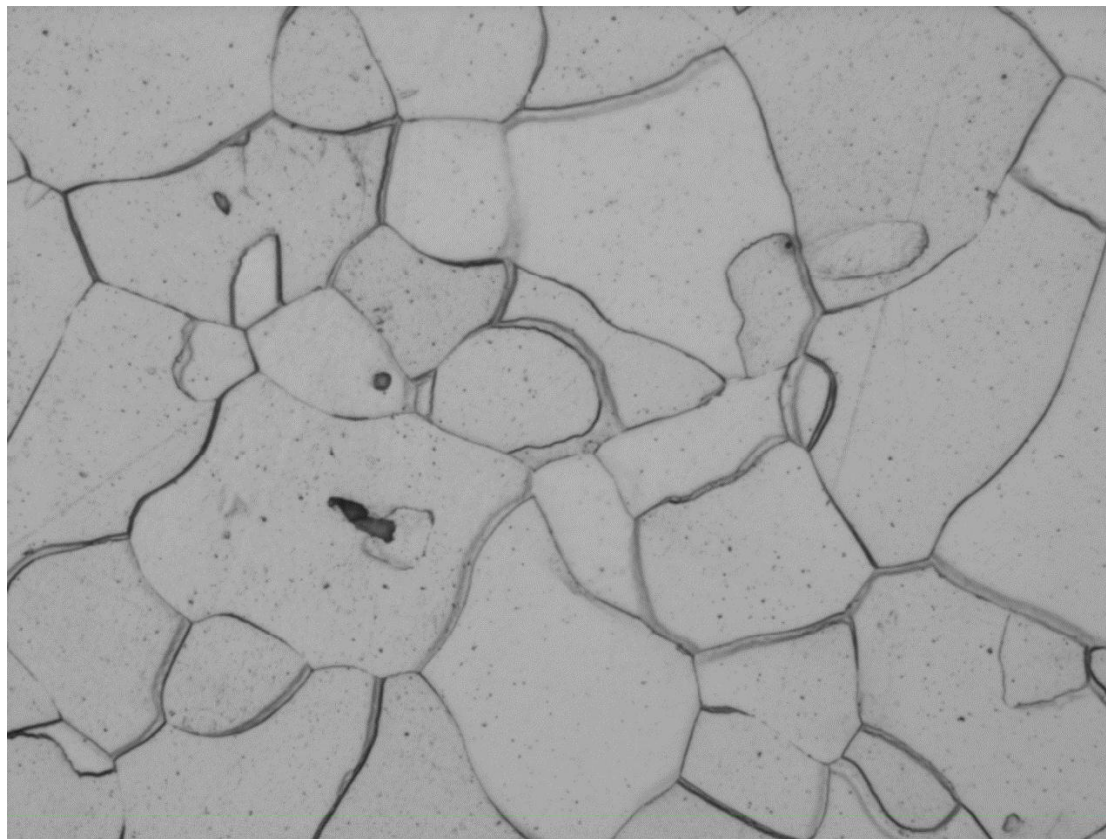


假象不多，有划痕，
但腐蚀过度，考虑
5~6分；

有低倍划痕，高倍划
痕不多，考虑13分

组织正确，适用第四
条，考虑33~35分

总分53分



请各位新评委和有兴趣的老师准备

每个样品分别有低倍和高倍各一张图片

显示20秒

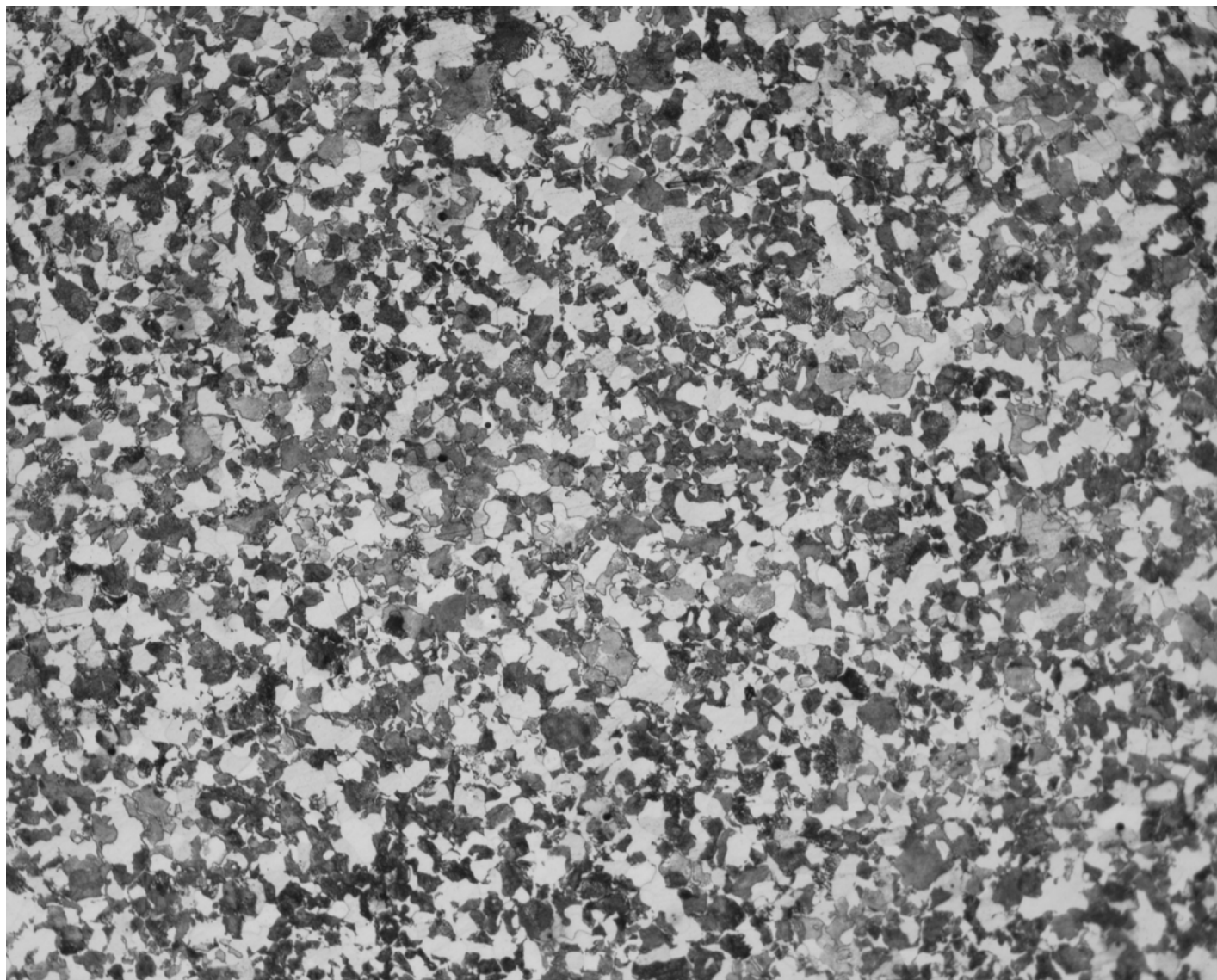
按评分细则，分别给出假象、划痕、组织

以及总分（共80分）



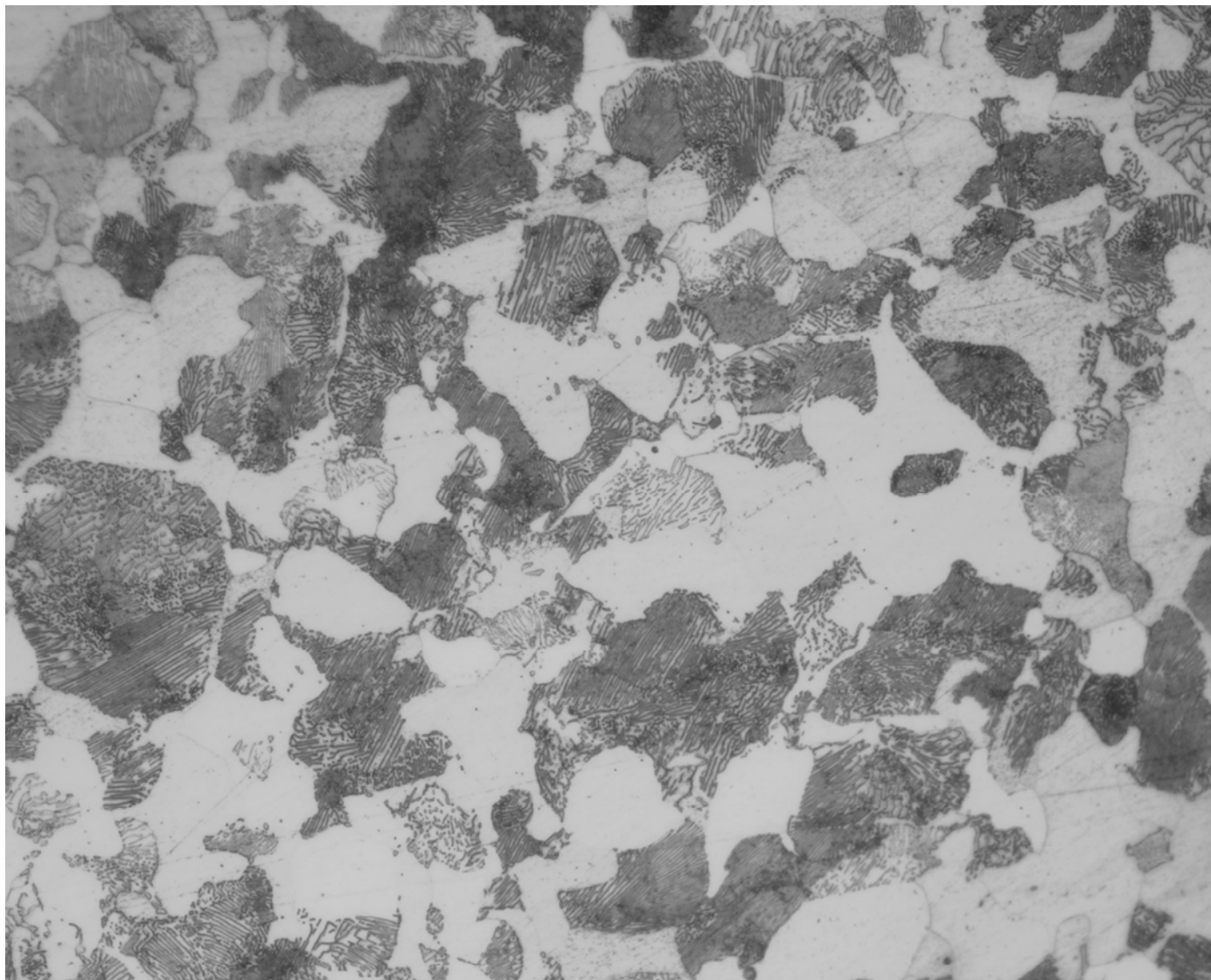


1#-100



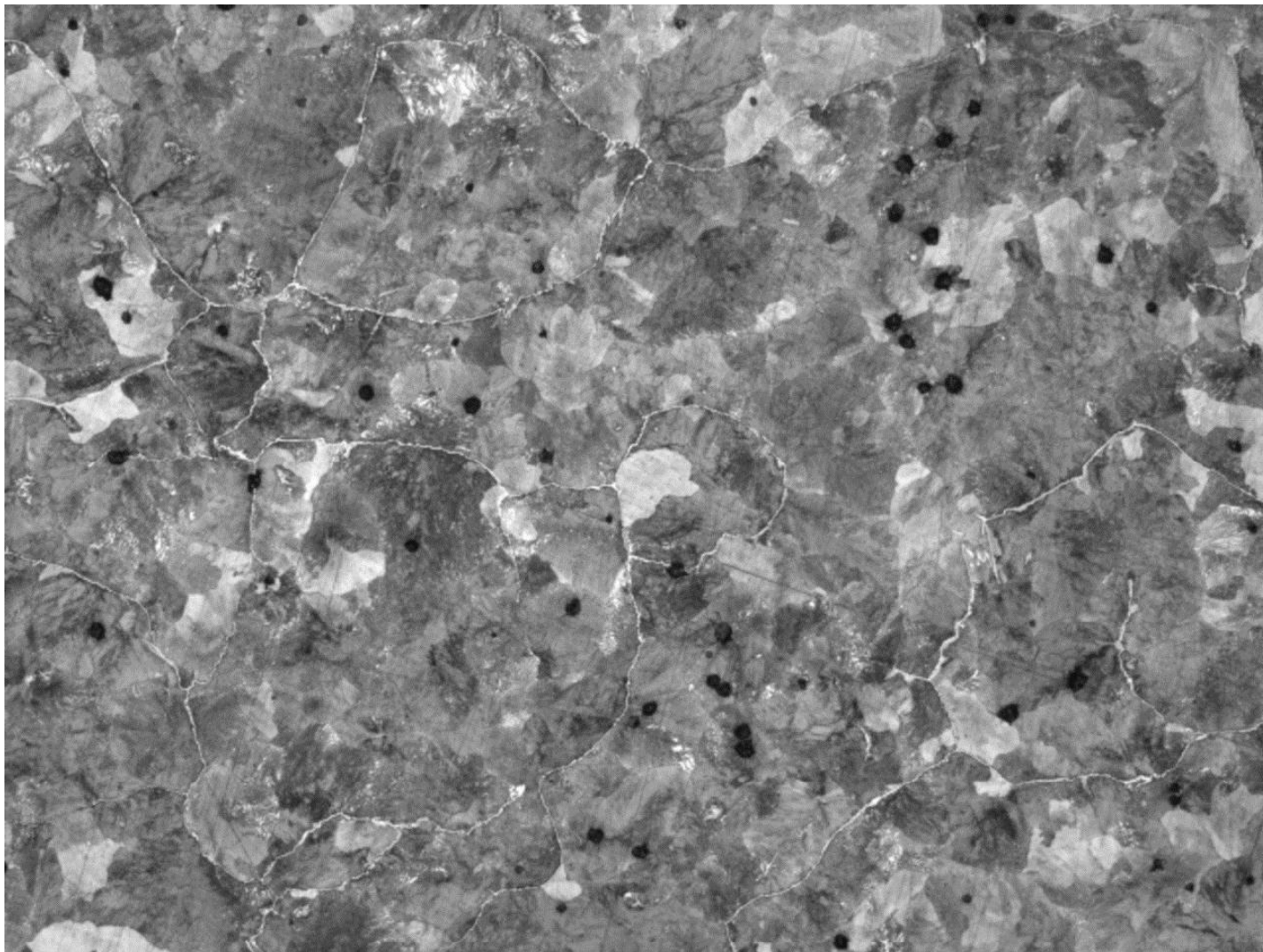


1#-500



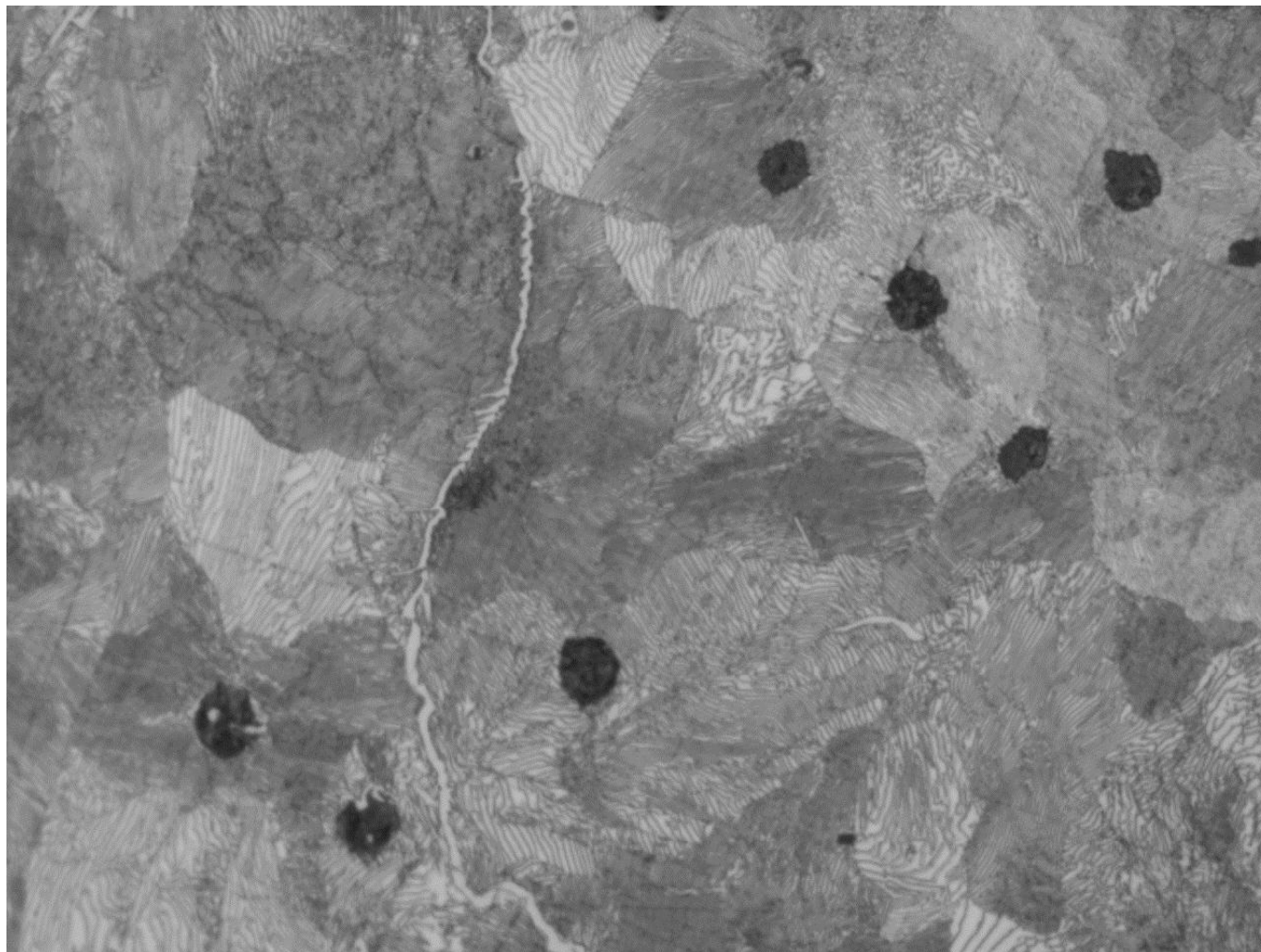


2#-200





2#-500



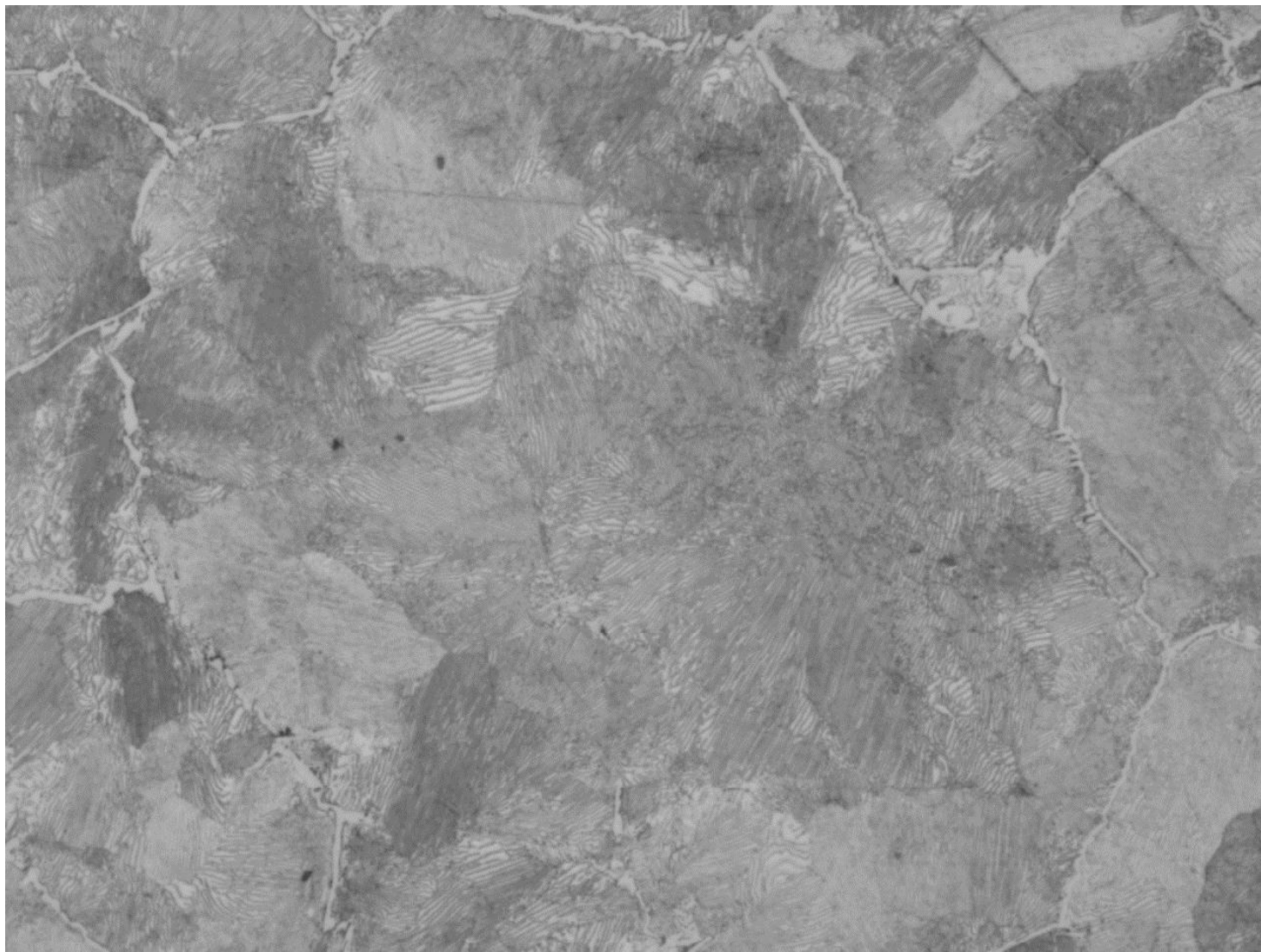


3#-200



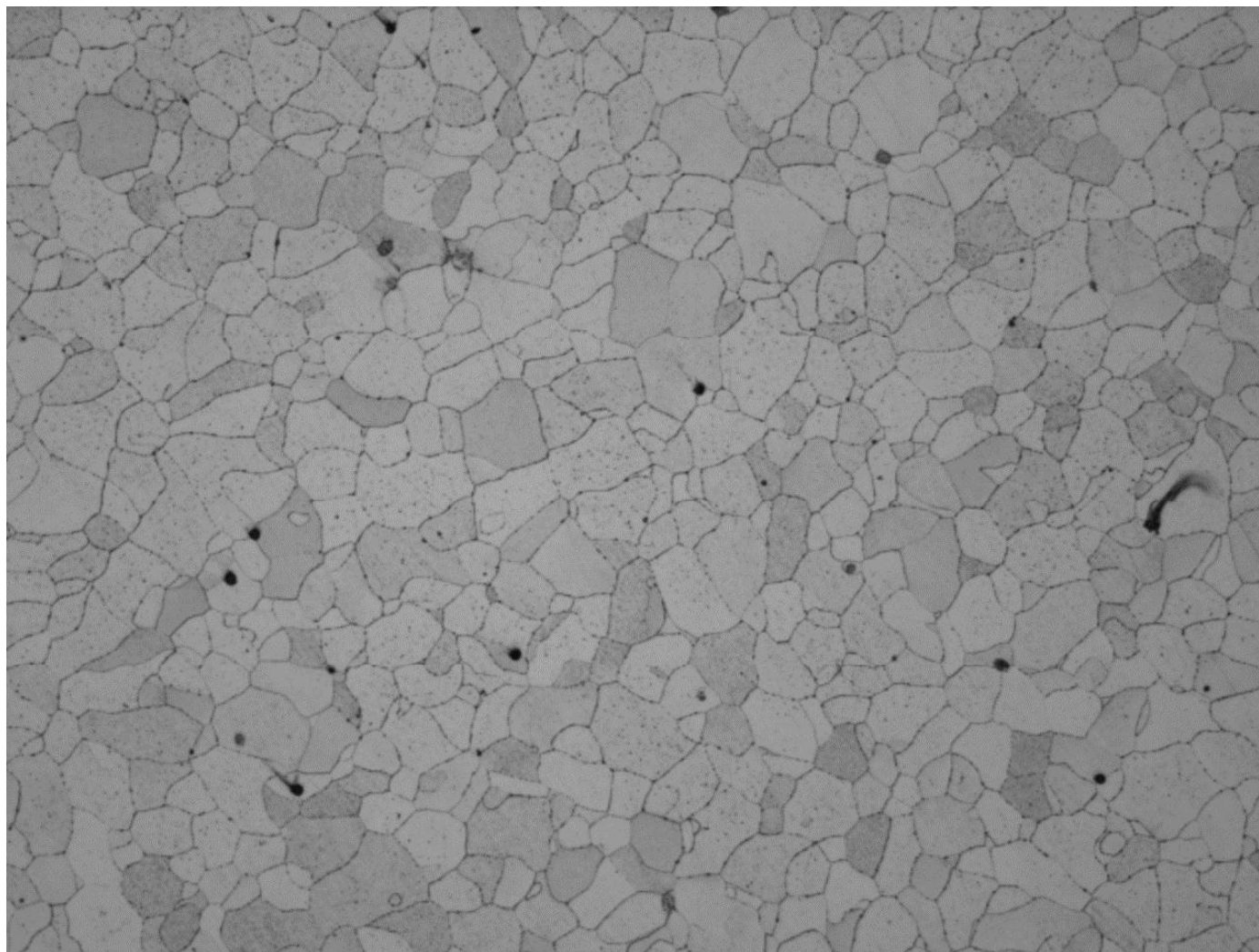


3#-500



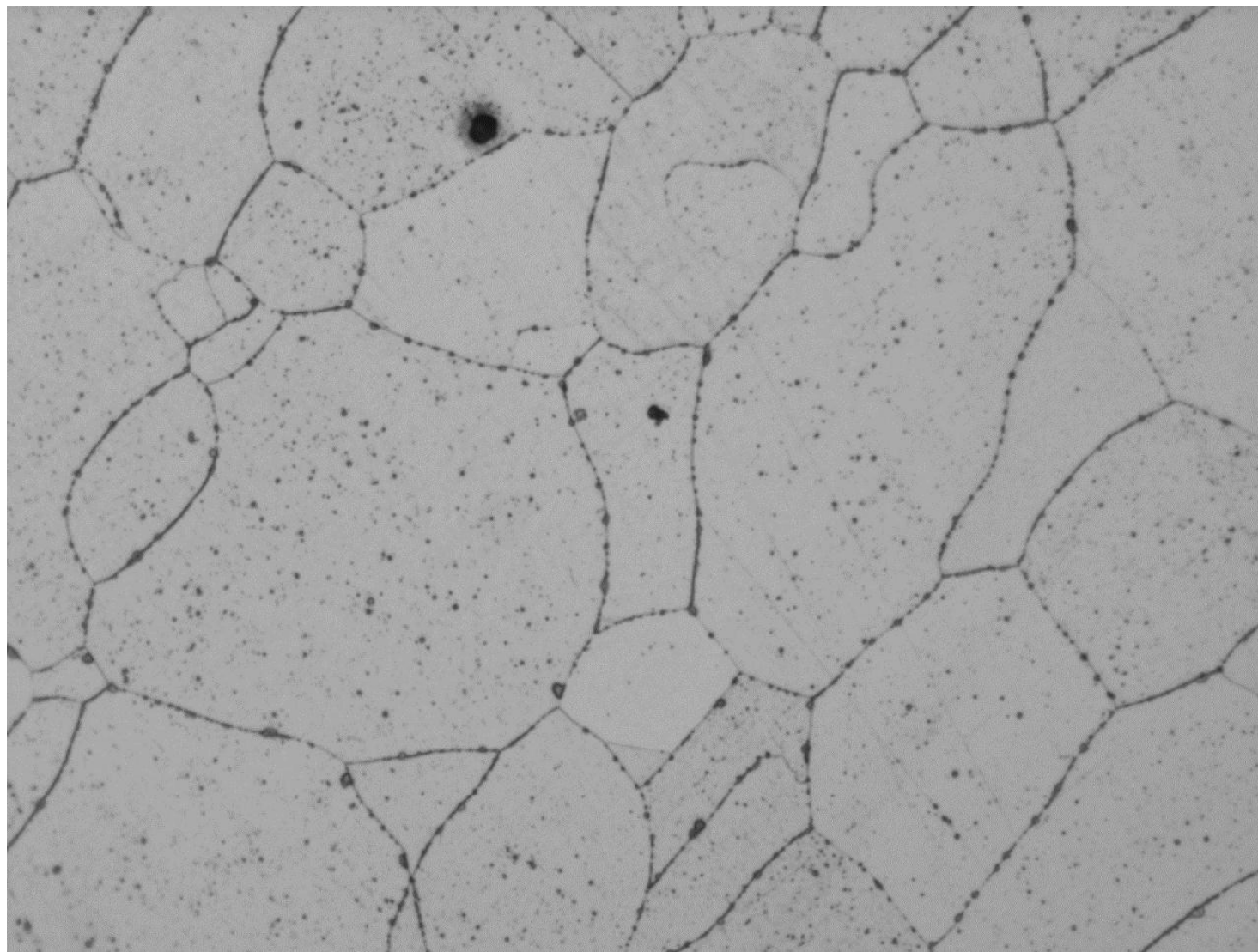


4#-200



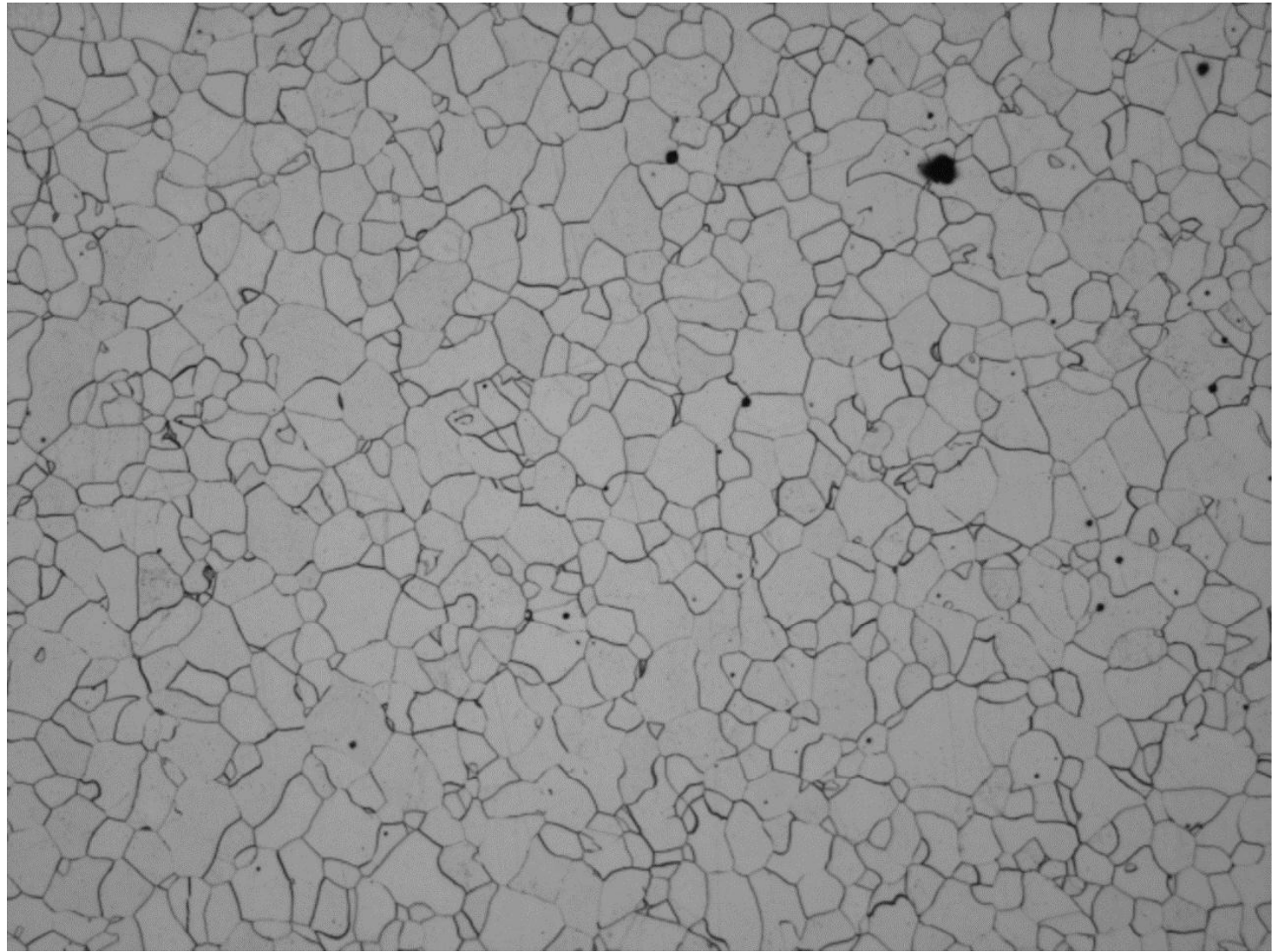


4#-500



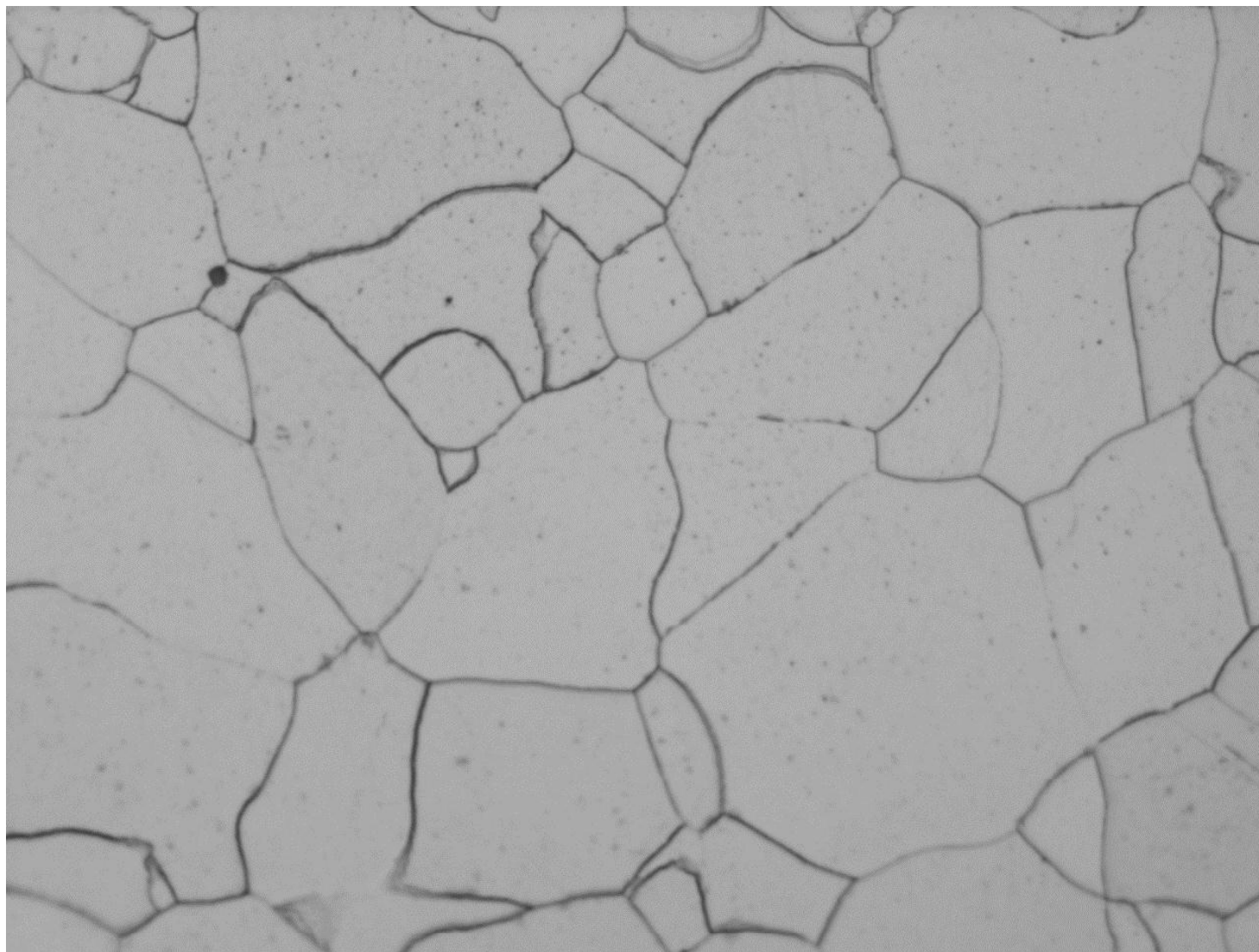


5#-200



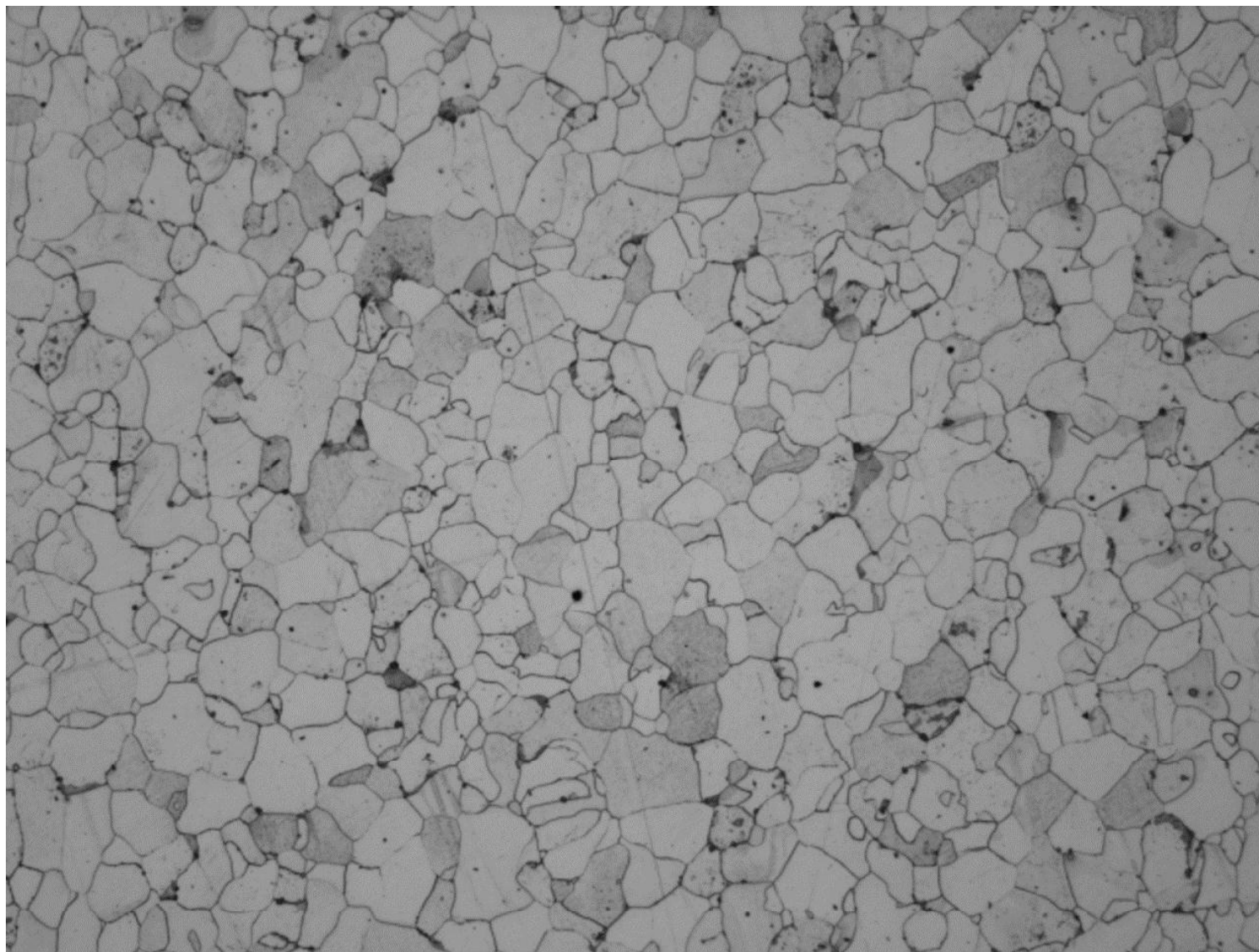


5#-500



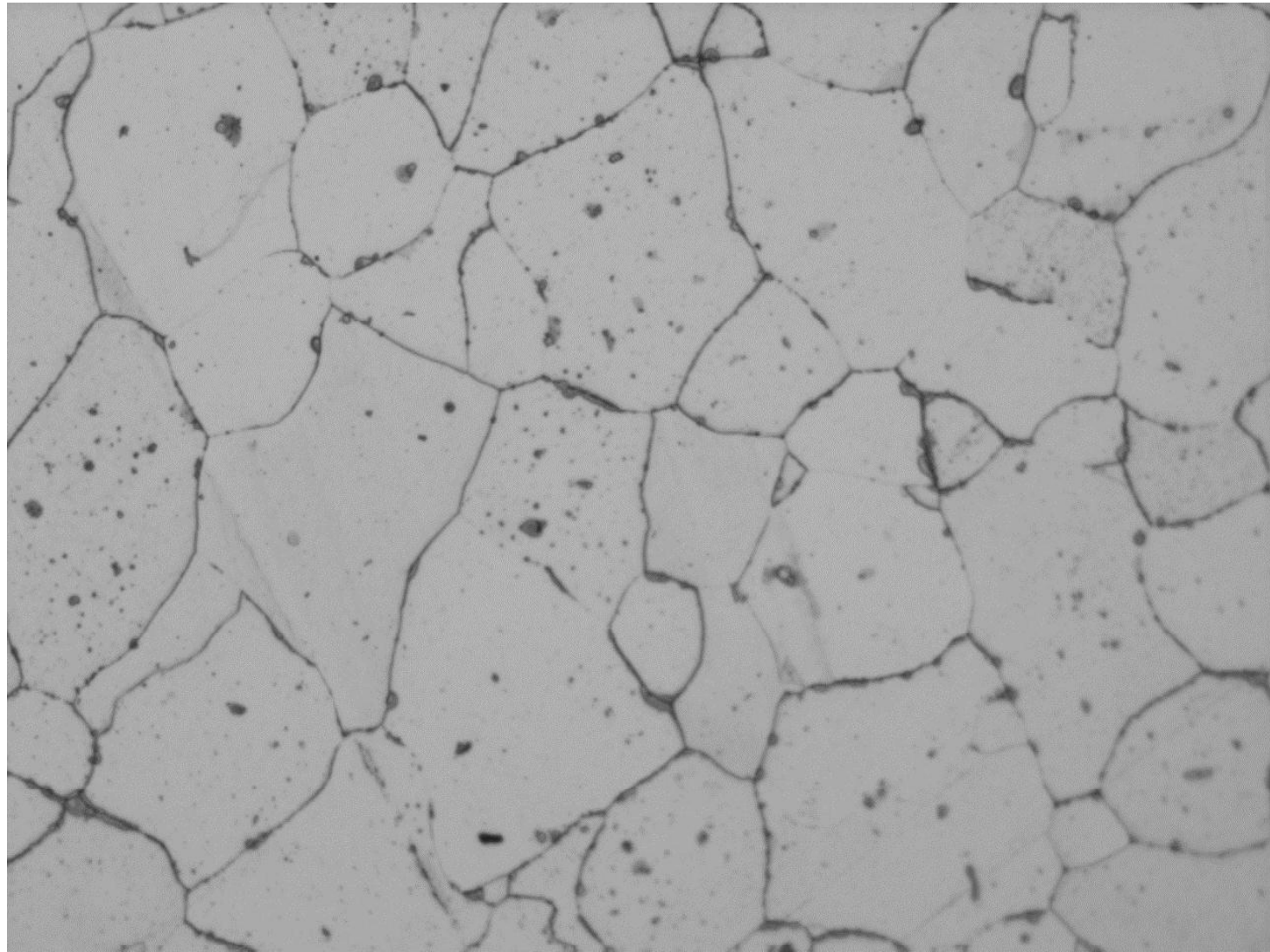


6#-200



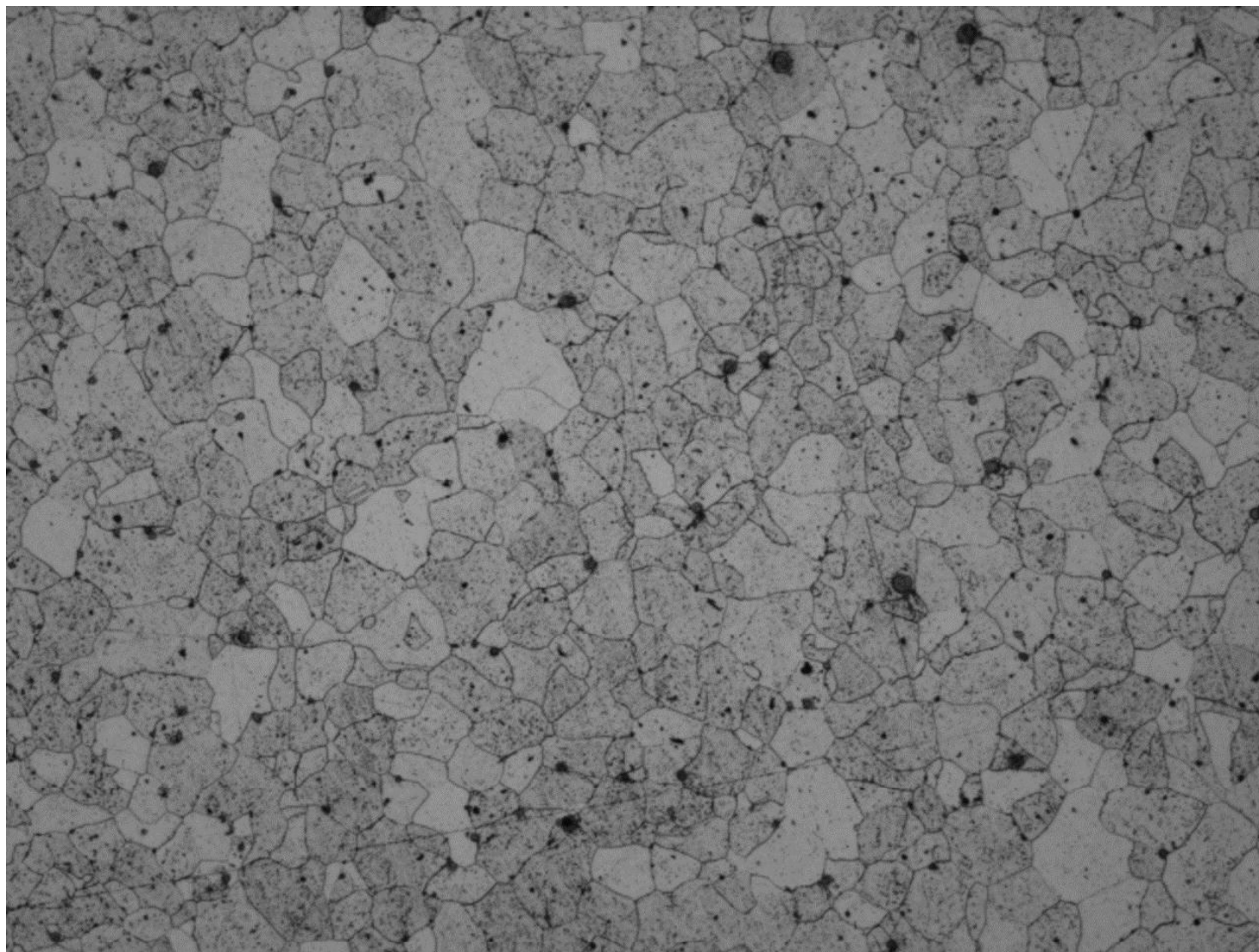


6#-500



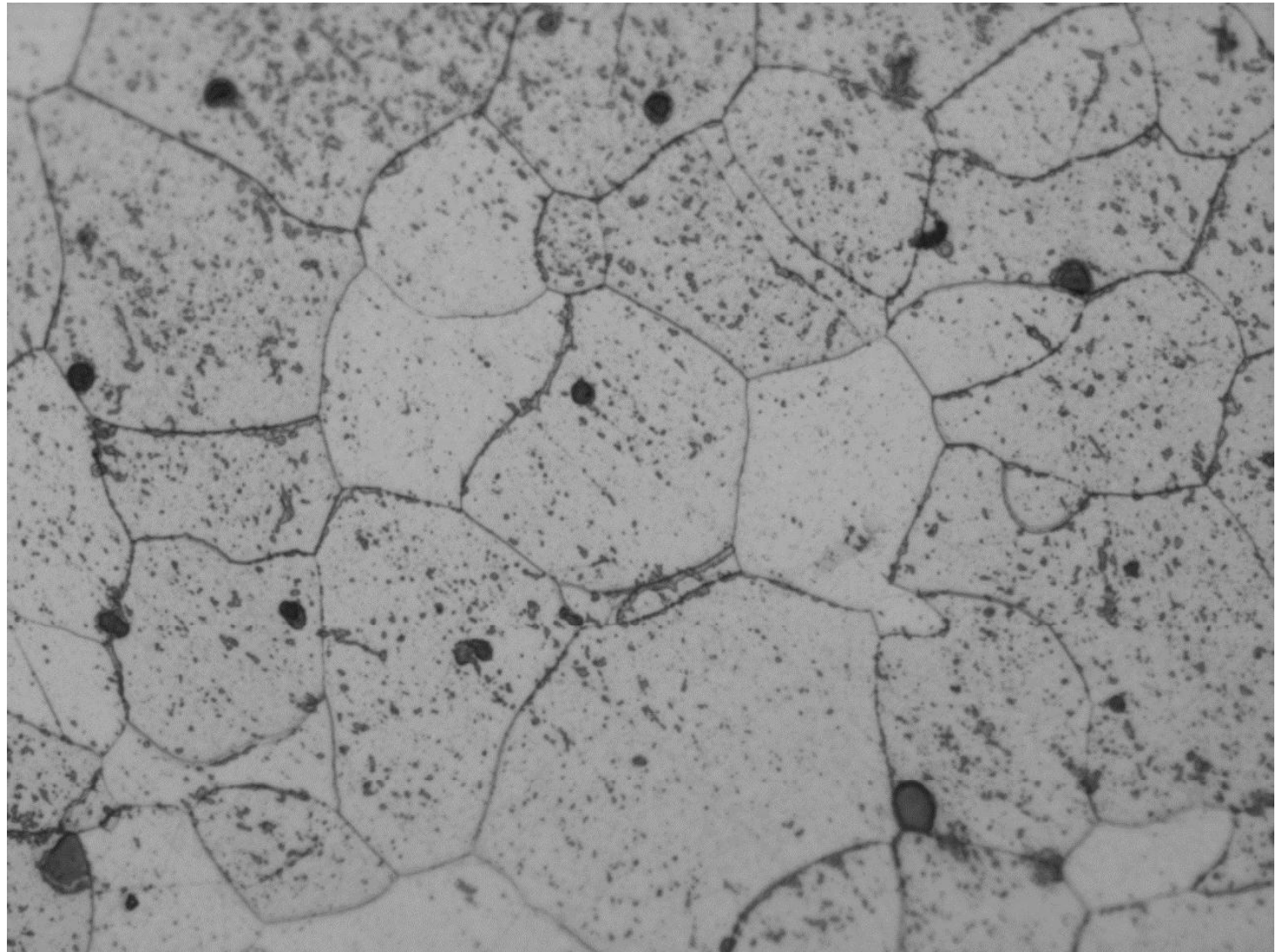


7#-200



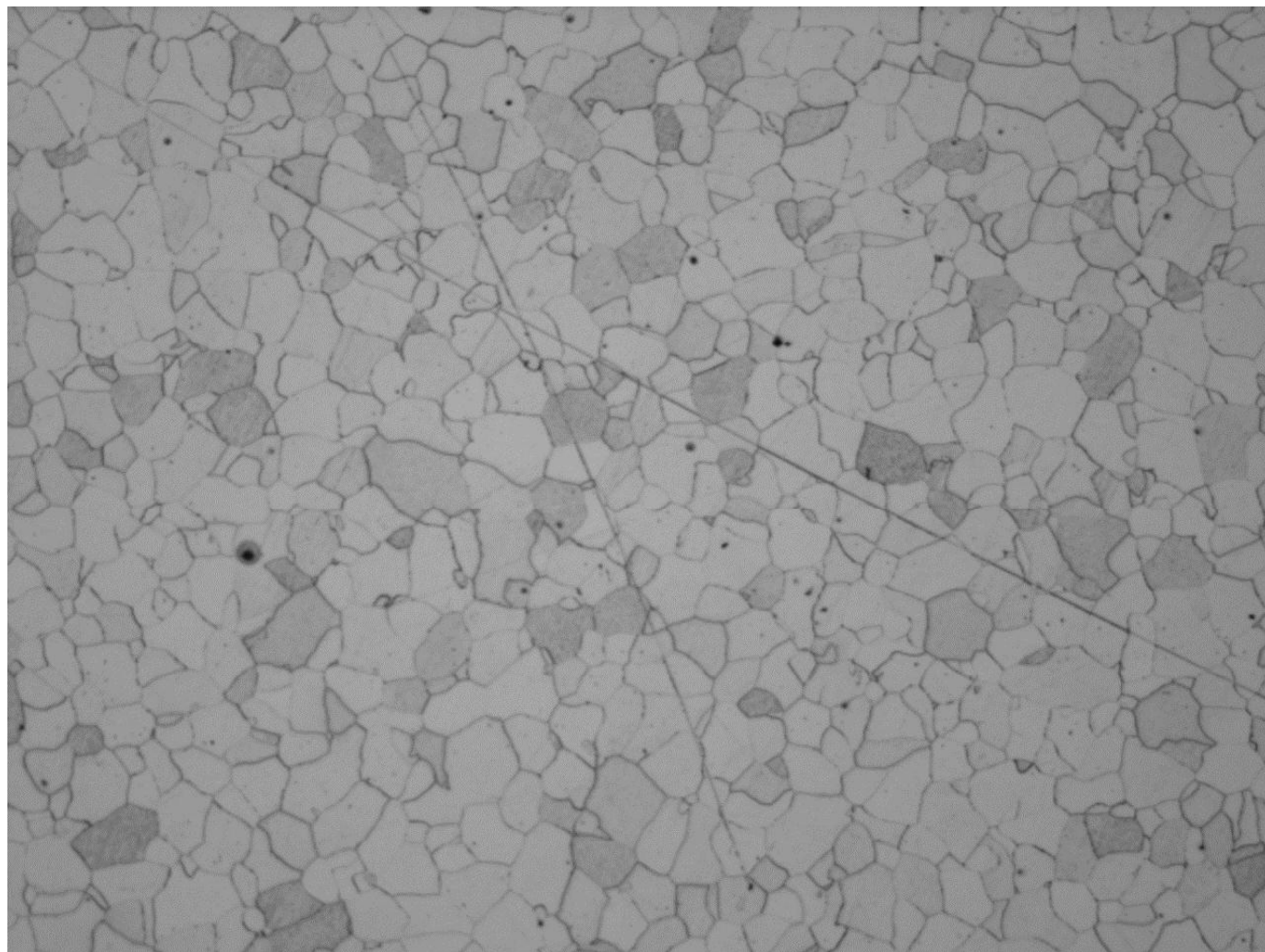


7#-500



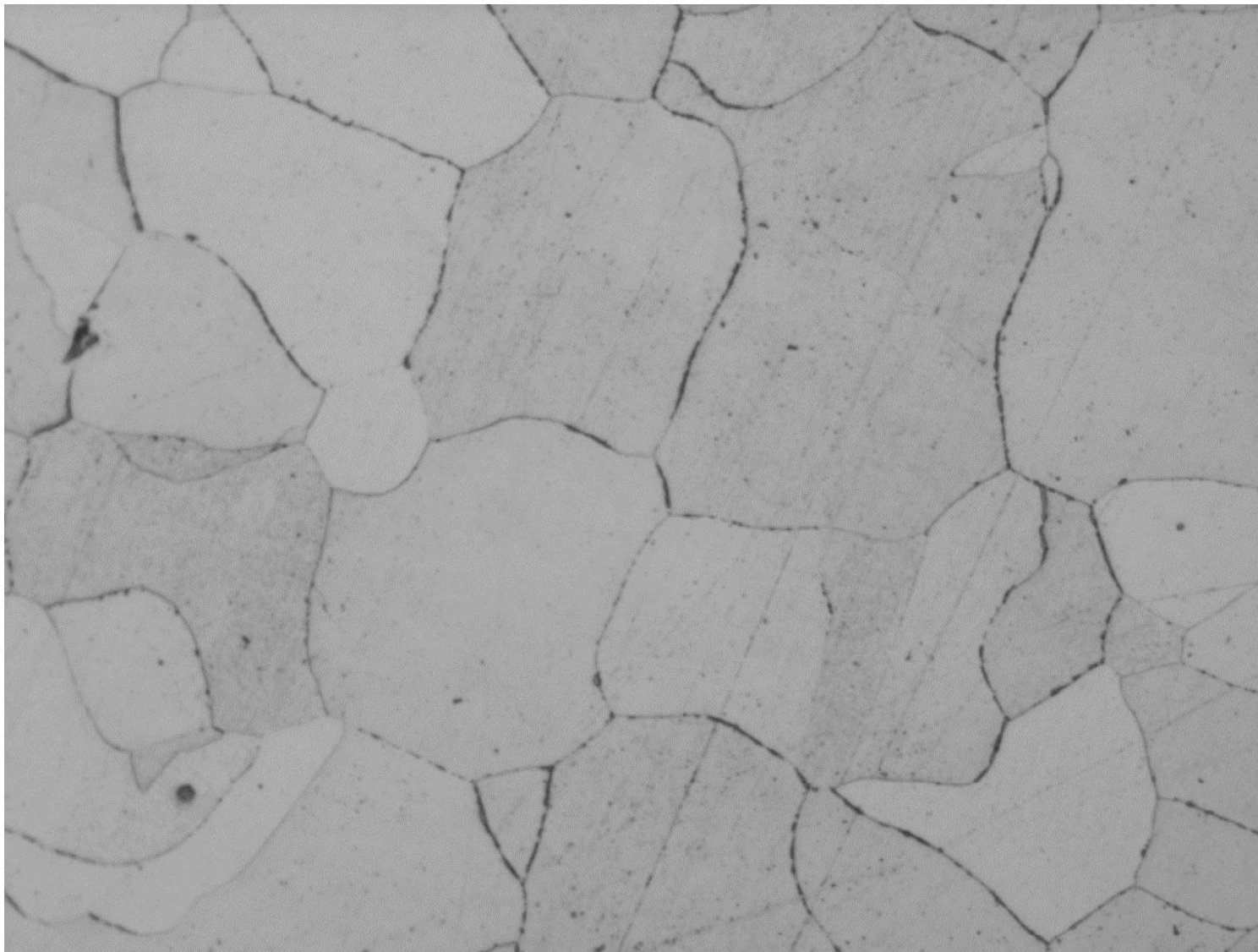


8#-200





8#-500

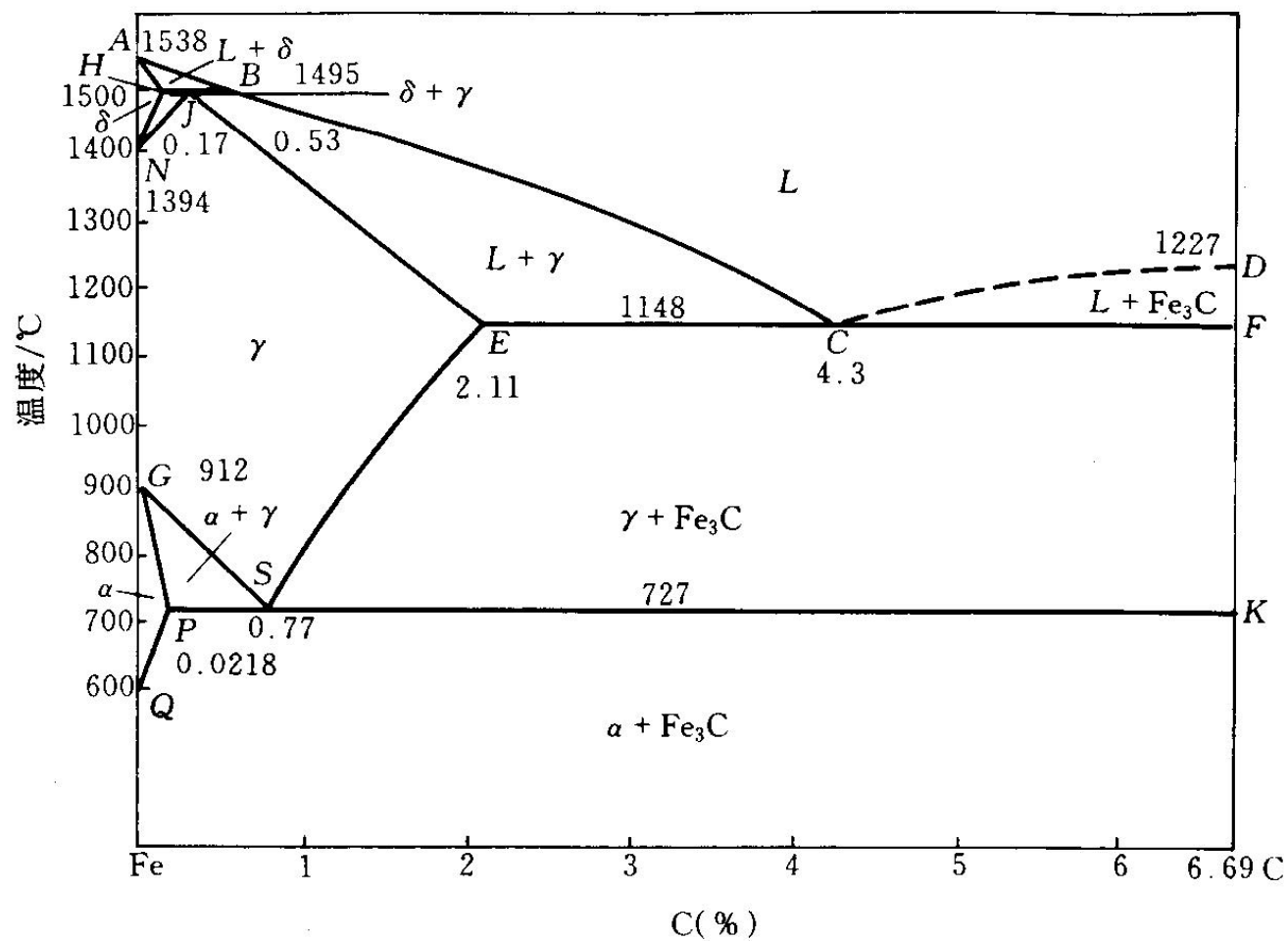


评委给出的评分建议：

样品编号	假象10	划痕20	组织50	总分
1#	6~7, (6.5)	14~17 (15.7)	35~41, (37.3)	55~65, (61.5)
2#	3~4, (3.5)	9~12, (10.5)	27~30, (28.7)	40~48, (44.5)
3#	5, (5)	12~14, (13.5)	30~38, (33.5)	47~57, (53.3)
4#	3~5, (4)	15, (15)	30~35, (32)	48~55, (51.5)
5#	8, (8)	18~19, (18.3)	45~46, (45.5)	70~73, (71)
6#	2~4, (3.5)	11~13, (12.3)	20~35, (30)	32~52, (46)
7#	1~3, (2.3)	6~13, (10.5)	11~28, (21.5)	13~41, (33)
8#	6~7, (6.7)	6~9, (7.7)	31~36, (33.5)	43~52, (48)

统一认识，体现公平





看看相图

Fe-Fe₃C 合金相图



下届评分建议：

增加假象分数至20分，细化细节描述

减少组织分数至40分

增加样品种类，可以用4%硝酸酒精腐蚀





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谢谢！

