上海市地方标准《涂料、油墨及其类似产品制造工业大气污染物排放标准》（DB31/881-2015）

标准实施评估

调研表格

上海市环境保护产业协会

2021.7

调研说明

根据国家对排放标准实施评估的要求，标准实施五年后，需要对标准实施情况进行评估，因此上海市生态环境局委托上海市环境保护产业协会牵头对2015年发布的《涂料、油墨及其类似产品制造工业大气污染物排放标准》（DB31/881-2015）进行实施评估。

为了更好地反映企业的实际现状，充分调研DB31/881-2015执行情况和实施中的困难，制定了调研表格。本次实施评估调研中不用于任何执法有关的工作，仅仅用于评估标准执行情况。敬请各位单位根据企业的实际情况填写，多谢。我们将对企业的信息保密。

如果有例行监测的数据，若方便，敬请附件提供。如果可以，请提供VOCs一厂一方案和VOCs2.0版本的资料。

请在两周内，通过邮件、快递等方式返回项目组。

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**涂料、油墨及其类似产品制造工业大气污染物排放标准实施评估表**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 企业名称 | | |  | | | | | | 所在工业园区 | | | | | |  | | | | | | | | | | | | | | |
| 地址 | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 联系人 | | |  | | | | | | 电子邮箱 | | | | | |  | | | | | | | | | | | | | | |
| 联系电话 | | |  | | | | | | 传真 | | | | | |  | | | | | | | | | | | | | | |
| 法人代表 | | |  | | | | | | 企业性质 | | | | | |  | | | | | | | | | | | | | | |
| 注册资本（万） | | |  | | | | | | 年利润（万） | | | | | |  | | | | | | | | | | | | | | |
| 行业类型 | | | | 产品类型 | | | | | | | | | | | | | | | | | | 产量（吨/年）  注：若有其他产量单位，请说明。 | | | | | | | |
| * 涂料制造 | | | | □：水性涂料; □：溶剂涂料;  □：辐射固化涂料; □：粉末涂料;  □：其他涂料（请说明）： | | | | | | | | | | | | | | | | | | 2018 | | | | 2019 | | | 2020 |
| * 油墨及类似产品制造 | | | | □：胶印油墨; □：水性油墨;  □：能量固化油墨; □：溶剂型油墨;  □：其他油墨（请说明）： | | | | | | | | | | | | | | | | | |  | | | |  | | |  |
| * 工业颜料制造 | | | | □：钛白粉（硫酸法）; □：钛白粉（氯化法）;  □：氧化铁; □：铅铬系颜料;  □：镉系颜料; □：立德粉;  □：其他工业颜料（请说明）： | | | | | | | | | | | | | | | | | |  | | | |  | | |  |
| * 工艺美术颜料制造 | | | | □：有机颜料; □：无机颜料; | | | | | | | | | | | | | | | | | |  | | | |  | | |  |
| * 染料制造 | | | | □：染料; □：染颜料中间体;  □：有机颜料;  □：其他（请说明）： | | | | | | | | | | | | | | | | | |  | | | |  | | |  |
| * 密封用填料及类似品制造 | | | | 请具体说明： | | | | | | | | | | | | | | | | | |  | | | |  | | |  |
| 工艺  简述 | （简述工艺的流程或者提供附件） | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 原辅材料使用量（在相应符合的框内画√） | 种类 | | | | | VOC含量  （质量分数%） | | | | | 主要成分 | | | | 材料物理形态  （气，液，固） | | | | 2018年（吨/年） | | | | 2019年（吨/年） | | | | 2020年  （吨/年） | | |
| 树脂 | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |
| * 醇酸树脂 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 氨基树脂 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 丙烯酸树脂 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 酚醛树脂 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 环氧树脂 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 聚氨酯树脂 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 聚酰胺树脂 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 氯化聚丙烯树脂 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 聚酯聚氨酯树脂 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 丙烯酸共聚树脂 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 醇/水型丙烯酸树脂 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 其他 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| 有机溶剂 | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |
| * 脂肪烃混合物 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 芳香烃 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 醇类 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 醚醇类 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 酮类 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 酯类 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 萜烯类 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 氯代烷烃 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 硝基烷烃 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 其他 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| 助剂 | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |
| * 流平剂 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 消泡剂 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 阻聚剂 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| * 其他 | | | | |  | | | | |  | | | |  | | | |  | | | |  | | | |  | | |
| 注：按照实际情况填写，如可能，也可以提供MSDS表。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 过程控制  （在相应符合的框内画√） | 物料存储方式 | 储罐储存 | | | □固定顶罐 | 主要物料 | | | | 数量 | | | 容积（m3） | | 设置呼吸阀 | | | 槽车和储罐之间  溶剂转移 | | | | | 收集方式 | | | | 治理方式 | | |
|  | | | |  | | |  | | □：是  □：否 | | | □：设置蒸汽平衡系统  □：设置废气收集处理 | | | | |  | | | |  | | |
| □内浮顶罐 | 主要物料 | | | | 数量 | | | 容积（m3） | | 一次密封 | | | | | 二次密封 | | | | | | | 检修时间/次 | | |
|  | | | |  | | |  | |  | | | | |  | | | | | | |  | | |
| □外浮顶罐 | 主要物料 | | | | 数量 | | | 容积（m3） | | 密封方式 | | | | | | | | | | | | 检修时间/次 | | |
|  | | | |  | | |  | | □浸液式 □机械式鞋形  □其他（请说明）： | | | | | | | | | | | |  | | |
|  |  | 非储罐储存 | | | 储存方式 | | | 主要物料 | | | | 是否密闭 | | 是否收集 | | | 储存方式 | | | | 主要物料 | | | | 是否密闭 | | | 是否收集 | |
|  | | |  | | | |  | |  | | |  | | | |  | | | |  | | |  | |
|  | 装载与输送 | | | | 有机物料输送：□：重力流; □：泵送; □：真空;  □：其他（请说明）： | | | | | | | | | | | | | | | | | | | | | | | | |
| 有机液体进料：□：浸入管给料; □：喷溅式给料;  □：其他（请说明）： | | | | | | | | | | | | | | | | | | | | | | | | |
| 挥发性有机液体装载：□：底部装载; □：顶部浸没式装载;  □：其他（请说明）： | | | | | | | | | | | | | | | | | | | | | | | | |
| 投料环节 | | | | 投料方式：□：固定缸/移动缸; □：真空抽料; □：中间罐;  □：用无泄漏泵; □：高位槽;  □：其他（请说明）： | | | | | | | | | | | | | | | | | | | | | | | | |
| □密闭操作，有收集; □密闭操作，无收集;  □不密闭操作，有收集; □不密闭操作，无收集; | | | | | | | | | | | | | | | | | | | | | | | | |
| 研磨环节 | | | | □：密闭式卧式研磨机; □：篮式研磨机; □：三辊式研磨机;  □：其他（请说明）： | | | | | | | | | | | | | | | | | | | | | | | | |
| 生产工序 | | | | □：采用密闭系统或在密闭空间内操作，废气排至 VOCs 废气收集处理系统;  □：非密闭系统，采用局部气体收集措施;  □：非密闭系统，未采用局部气体收集措施; | | | | | | | | | | | | | | | | | | | | | | | | |
| 清洗/吹扫环节 | | | | □：采用密闭系统或在密闭空间内操作，废气排至 VOCs 废气收集处理系统;  □：非密闭系统，采用局部气体收集措施;  □：非密闭系统，未采用局部气体收集措施; | | | | | | | | | | | | | | | | | | | | | | | | |
| 产品包装环节 | | | | □：手动包装; □：半自动包装; □：自动包装; | | | | | | | | | | | | | | | | | | | | | | | | |
| 开停工  （非正常生产） | | | | 残存物料储存：□：密闭容器盛装;  □：其他（请说明）： | | | | | | | | | | | | | | | | | | | | | | | | |
| 配套设施 | | | | 设施段 | | | | | | 操作情况说明 | | | | | | | | | | | | | | | | | | |
| 危废间 | | | | | | □车间密闭，有收集 □车间密闭，无收集  □车间不密闭，有收集 □车间不密闭，有收集 | | | | | | | | | | | | | | | | | | |
| 污水处理厂  (含敞开液面) | | | | | | □浮动盖密闭，有收集 □固定盖密闭，无收集  □不密闭，无收集 | | | | | | | | | | | | | | | | | | |
| 真空设备 | | | | | | □：干式真空泵; □：液环（水环）真空泵;  □：水（水蒸气）喷射真空泵;  □：其他（请说明）： | | | | | | | | | | | | | | | | | | |
| 设备  组件(LDAR) | | 点位数 | | | 是否开展LDAR工作 | | | | | | 静密封点检测时间/次 | | | | | | | | 动密封监测时间/次 | | | | | |
|  | | | □是 □否 | | | | | |  | | | | | | | |  | | | | | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 末端治理 | 治理技术概况 | 排气筒 | | 废气主要来源  (工艺段/设施段) | | | 设计风量(m3/h) | | | | | 主要污染物 | | | | | | | 废气排放时间  (h/年) | | | | 治理工艺 | | | | | | | | | | 初始投资(万) | | | | 高度  (m) |
| 1# | |  | | |  | | | | | □VOCs  □颗粒物  □其他 : | | | | | | |  | | | |  | | | | | | | | | |  | | | |  |
|  | | |  | | | | | □VOCs  □颗粒物  □其他 : | | | | | | |  | | | |
|  | | |  | | | | | □VOCs  □颗粒物  □其他 : | | | | | | |  | | | |
| 2# | |  | | |  | | | | | □VOCs  □颗粒物  □其他 : | | | | | | |  | | | |  | | | | | | | | | |  | | | |  |
|  | | |  | | | | | □VOCs  □颗粒物  □其他 : | | | | | | |  | | | |
|  | | |  | | | | | □VOCs  □颗粒物  □其他 : | | | | | | |  | | | |
| 3# | |  | | |  | | | | | □VOCs  □颗粒物  □其他 : | | | | | | |  | | | |  | | | | | | | | | |  | | | |  |
|  | | |  | | | | | □VOCs  □颗粒物  □其他 : | | | | | | |  | | | |
|  | | |  | | | | | □VOCs  □颗粒物  □其他 : | | | | | | |  | | | |
| 4# | |  | | |  | | | | | □VOCs  □颗粒物  □其他 : | | | | | | |  | | | |  | | | | | | | | | |  | | | |  |
|  | | |  | | | | | □VOCs  □颗粒物  □其他 : | | | | | | |  | | | |
|  | | |  | | | | | □VOCs  □颗粒物  □其他 : | | | | | | |  | | | |
|  |  | 活性炭种类 | | □蜂窝状 □颗粒状 | | | | | | | | | | | | | | | 催化剂种类 | | | | □贵金属 □过渡金属 □非金属 | | | | | | | | | | | | | | |
| 脱附方式 | | □热蒸汽脱附 □热空气脱附  □降压脱附 | | | | | | | | | | | | | | | RTO  类型 | | | | □旋转式 □两厢式 □多厢式 | | | | | | | | | | | | | | |
|  |  | 冷凝方式 | | □液氮冷凝 □机械深冷 | | | | | | | | | | | | | | |  | | | |  | | | | | | | | | | | | | | |
|  | 治理技术参数 | 排气筒 | | 除尘设备效率(%)  如:过滤棉 | 吸收装置气液比(t)  如:喷淋塔 | | | | 吸附材料填充量(t)  如:活性炭 | | | | | | 吸附材料脱附温度(℃)  如:沸石转轮 | | | | 燃烧方式燃烧温度(℃) 如:RCO/RTO | | | | 深冷/  水冷冷凝温度(℃)如:液氮冷凝 | | | | 生物降解  停留时间(s)  如:滴滤塔 | | | | | 其他  工艺 | | | | | |
| 1# | |  |  | | | |  | | | | | |  | | | |  | | | |  | | | |  | | | | |  | | | | | |
| 2# | |  |  | | | |  | | | | | |  | | | |  | | | |  | | | |  | | | | |  | | | | | |
| 3# | |  |  | | | |  | | | | | |  | | | |  | | | |  | | | |  | | | | |  | | | | | |
| 4# | |  |  | | | |  | | | | | |  | | | |  | | | |  | | | |  | | | | |  | | | | | |
|  | |  |  | | | |  | | | | | |  | | | |  | | | |  | | | |  | | | | |  | | | | | |
| 治理技术运维 | 排气筒 | | 动力源耗电  (风机、泵等)  (kw•h年) | | | | 治理设备耗电  (kw•h /年) | | | | | | | | | | | | 耗材危废(t/年) | | | | | | | | | | | | 助燃气用量  (m³/年) | | | | | |
| CO/  RCO | | | 冷凝 | | 旋风  除尘 | | | | 吸附材料 | | | 催化剂 | 过滤棉 | | | | 废水 | | | 布袋 | | 其他 | | CO/  RCO | | | | TO/  RTO | |
| 1# | |  | | | |  | | |  | |  | | | |  | | |  |  | | | |  | | |  | |  | |  | | | |  | |
| 2# | |  | | | |  | | |  | |  | | | |  | | |  |  | | | |  | | |  | |  | |  | | | |  | |
| 3# | |  | | | |  | | |  | |  | | | |  | | |  |  | | | |  | | |  | |  | |  | | | |  | |
| 4# | |  | | | |  | | |  | |  | | | |  | | |  |  | | | |  | | |  | |  | |  | | | |  | |
|  | |  | | | |  | | |  | |  | | | |  | | |  |  | | | |  | | |  | |  | |  | | | |  | |
| 排放情况 | | | 有组织排放（最大值和日均值） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 排气筒编号 | | | 1#进口 | | | | 1#出口 | | | | 2#进口 | | | | 2#出口 | | | | 3#进口 | | | | 3#出口 | | | | | 4#进口 | | | | 4#出口 | | |
| 风量  （m3/h） | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | |  | | | |  | | |
| 颗粒物  （mg/ m3） | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | |  | | | |  | | |
| 铬及其化合物  （mg/ m3） | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | |  | | | |  | | |
| 苯  （mg/ m3） | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | |  | | | |  | | |
| 甲苯  （mg/ m3） | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | |  | | | |  | | |
| 二甲苯  （mg/ m3） | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | |  | | | |  | | |
| 苯系物  （mg/ m3） | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | |  | | | |  | | |
| 非甲烷总烃(NMHC) （mg/ m3） | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | |  | | | |  | | |
| 苯酚  （mg/ m3） | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | |  | | | |  | | |
| 苯乙烯  （mg/ m3） | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | |  | | | |  | | |
| 甲醛  （mg/ m3） | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | |  | | | |  | | |
| 环己酮  （mg/ m3） | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | |  | | | |  | | |
| 醛、酮类  （mg/ m3） | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | |  | | | |  | | |
| 乙酸酯类  （mg/ m3） | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | |  | | | |  | | |
| 丙烯酸酯类  （mg/ m3） | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | |  | | | |  | | |
| 异氰酸酯类  （mg/ m3） | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | |  | | | |  | | |
| 苯胺类  （mg/ m3） | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | |  | | | |  | | |
| 氯化氢  （mg/ m3） | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | |  | | | |  | | |
| 挥发性卤代烃  （mg/ m3） | | |  | | | |  | | | |  | | | |  | | | |  | | | |  | | | | |  | | | |  | | |
|  | | | 厂区内浓度（NMHC） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 一次值（mg/m3） | | | | | | | | | | | | | | | | | 小时均值（mg/m3） | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | |
| 厂界浓度 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 基本控制项目 | | | 颗粒物 | | | | | 铬及其化合物 | | | | | 苯 | | | | 甲苯 | | | | 二甲苯 | | | | | NMHC | | | | | | | | |
| 浓度（mg/m3） | | |  | | | | |  | | | | |  | | | |  | | | |  | | | | |  | | | | | | | | |
| 选择控制项目 | | | 苯酚 | | | | | 苯乙烯 | | | | | 甲醛 | | | | 环己酮 | | | | 乙酸乙酯 | | | | | 苯胺类 | | | | | 氯化氢 | | | |
| 浓度（mg/m3） | | |  | | | | |  | | | | |  | | | |  | | | |  | | | | |  | | | | |  | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 其他监控措施 | 在线监测（NMHC） | □：有; □：无 | 数量（台数） |  |
| 在线监测（颗粒物） | □：有; □：无 | 数量（台数） |  |
| 其他污染物 | □：有; □：无 | 数量（台数） |  |
| 治理设施用电管理 | □：单独计量; □：无单独计量 □：部分单独计量 | | |
| 治理设备电费（元/年） |  | | |
| 治理设备运维费（元/年） |  | | |
| 监测设备投资成本（元/套） |  | | |
| 监测设备电费（元/年） |  | | |
| 监测设备运维费（元/年） |  | | |
| 有组织排放指标体系 | □：排放浓度+排放速率+最低去除效率  □：排放浓度+排放速率  □：排放浓度+最低去除效率  □：原辅材料VOCs含量限值+排放浓度  □：原辅材料VOCs含量限值+排放浓度+排放速率 | | |
| 厂区NMHC控制 | □：需要（一次值+小时均值）  □：不需要 | | |
| 控制项目 | □：已经足够，不需要增加项目  □：控制项目缺失，需要增加，建议（说明项目）：  □：控制项目过多，建议删除，具体删除项目： | | |
| 标准宽严 | □：排放浓度过严，具体项目：  □：排放速率过严，具体项目：  □：最低去除效率过严, 具体项目:  □：其他要求过严具体项目： | | |
| 其他建议 |  | | |