



## 시험성적서 번호 F690101/LF-CTSAYAA25-00281K

발행일: 2025. 01. 10 페이지: 1/ 4

고객명 : 디에스알제강주식회사  
주소 : 전라남도 순천시 서면 산단1길 15



고객으로부터 제공받은 시료에 대한 정보는 다음과 같습니다.

SGS 파일 번호 : AYAA25-00281K  
제품명 : Spring Steel Wire  
아이템 번호 : N/A  
고객 참고 사항 : SWA, SWB, SWC, HSWC, EN10270-1, SWRH 62A, SWRH 62B, SWRH 72B, SWRH82A, SWRH82B  
시료 접수 날짜 : 2025. 01. 02  
시험 시행 기간 : 2025. 01. 02 ~ 2025. 01. 10  
참고 : 고객의 요청에 의해, 아이템 번호와 고객 참고 사항이 추가 기재 되었습니다.  
시험 결과 : 자세한 결과는 다음 장을 참조하세요.

Monet Jeong

정 양 선

기술책임자/ 한국에스지에스㈜

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시험성적서 번호 F690101/LF-CTSAYAA25-00281K

발행일: 2025. 01. 10    페이지: 2/ 4

시 료 번 호 : AYAA25-00281K.001  
시 료 명 : Spring Steel Wire  
아 이 템 번 호 : N/A  
재 질 : N/A

Heavy Metals

분 석 항 목	단 위	시 험 방 법	검출한계	결 과
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5 : 2013, by ICP-OES	0.5	불검출
Lead (Pb)	mg/kg	With reference to IEC 62321-5 : 2013, by ICP-OES	5	불검출
Mercury (Hg)	mg/kg	With reference to IEC 62321-4 : 2013+AMD1:2017CSV, by ICP-OES	2	불검출
Hexavalent Chromium (Cr VI)++	µg/cm²	With reference to IEC 62321-7-1 : 2015, by UV-Vis	0.1	불검출

Flame Retardants-PBBs/PBDEs

분 석 항 목	단 위	시 험 방 법	검출한계	결 과
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출
Dibromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출
Tribromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출
Pentabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출
Hexabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출
Heptabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출
Octabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출
Nonabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출

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발행일: 2025. 01. 10    페이지: 3/ 4

시 료 번 호 : AYAA25-00281K.001  
시 료 명 : Spring Steel Wire  
아 이 템 번 호 : N/A  
재 질 : N/A

Flame Retardants-PBBs/PBDEs

분 석 항 목	단 위	시 험 방 법	검출한계	결 과
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	불검출

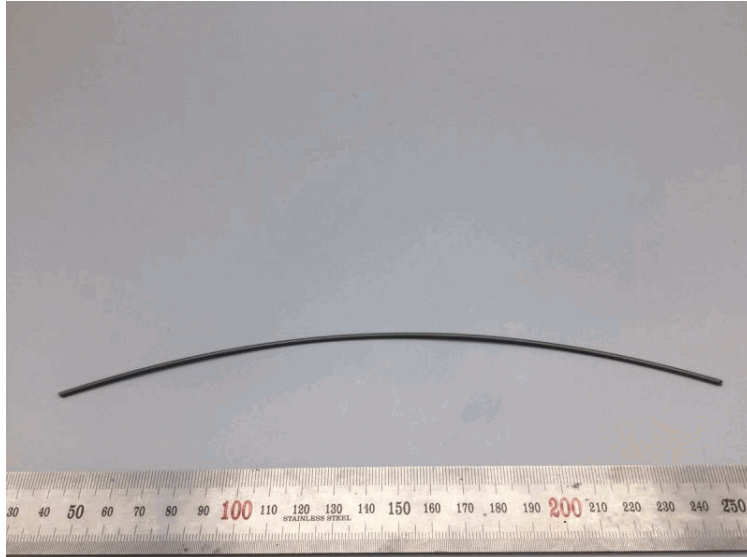
Phthalates

분 석 항 목	단 위	시 험 방 법	검출한계	결 과
Di-isobutyl phthalate (DIBP)	mg/kg	With reference to IEC 62321-8: 2017, by GC-MS	50	불검출
Di-butyl phthalate (DBP)	mg/kg	With reference to IEC 62321-8: 2017, by GC-MS	50	불검출
Benzyl butyl phthalate (BBP)	mg/kg	With reference to IEC 62321-8: 2017, by GC-MS	50	불검출
Di-(2-ethylhexyl) phthalate (DEHP)	mg/kg	With reference to IEC 62321-8: 2017, by GC-MS	50	불검출

- 주) (1) 불검출 : 검출한계 미만  
(2) + = a. 총 크롬이 불검출일 경우, 육가크롬(CrVI) 불검출.  
b. 총 크롬이 8 mg/kg 이상일 경우, 육가크롬(CrVI) 확인시험에 의한 분석결과.  
(3) ++ = a. 검출 값이 0.13  $\mu\text{g}/\text{cm}^2$  이상이면 Positive로 결과 값 입력.  
b. 검출 값이 0.10  $\mu\text{g}/\text{cm}^2$  이하이면 Negative로 결과 값 불검출로 입력.  
c. 검출 값이 0.10  $\mu\text{g}/\text{cm}^2$ 과 0.13  $\mu\text{g}/\text{cm}^2$  사이의 값이면 Inconclusive로 의심이 됨.  
(3회 재확인 시험을 진행 해야함)

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접수된 시료의 사진 :



**AYAA25-00281K.001**

\*\*\* 끝 \*\*\*

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