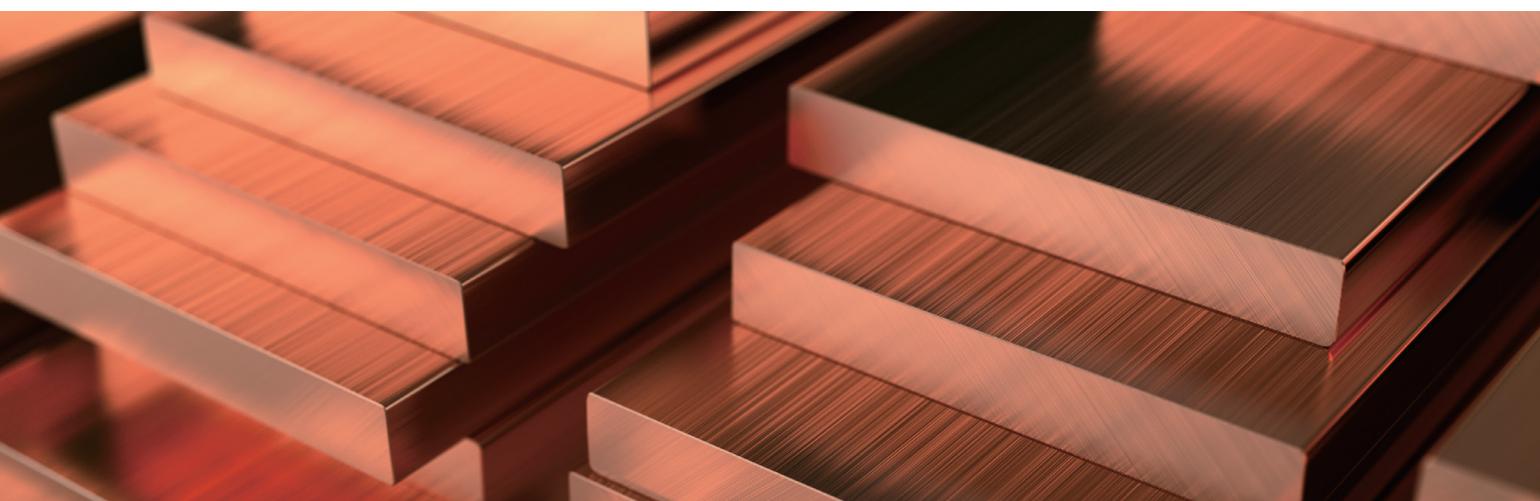


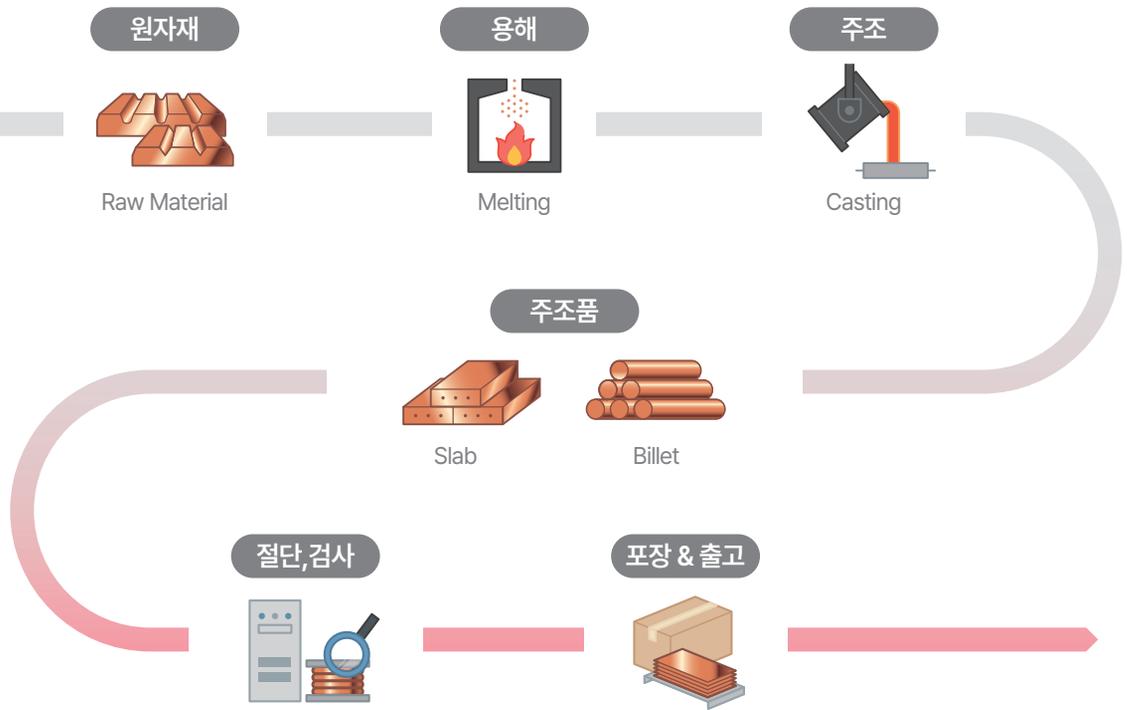
Alloy No.	성분														
	Cu	IACS %	Zn	P	Pb	Fe	Ni	Cr	Zr	Si	As	Al	Mn	Sn	Ag
C1100	≥99.9	≥98.0													
C1201	≥99.9			0.004~0.015											
C1220	≥99.9			0.015~0.040											
C2100	94.0~96.0		Rem		≤0.05	≤0.03									
C2200	89.0~91.0		Rem		≤0.05	≤0.05									
C2300	84.0~86.0		Rem		≤0.05	≤0.05									
C2600	68.5~71.5		Rem		≤0.05	≤0.05									
C2680	64.0~68.0		Rem		≤0.05	≤0.05									
C2700	63.0~67.0		Rem		≤0.05	≤0.05									
C2800	59.0~63.0		Rem		≤0.1	≤0.07									
C33000	65.0~68.0		Rem		0.25~0.70	≤0.07									
C33200	65.0~68.0		Rem		1.50~2.50	≤0.07									
C3604	57.0~61.0		Rem		1.8~3.7	≤0.5								≤0.5	
C3771	57.0~61.0		Rem		1.0~2.5	≤0.5								≤0.5	
C44200	70.0~73.0		Rem		≤0.07	≤0.06								0.8~1.2	
C4430	70.0~73.0		Rem		≤0.05	≤0.05					0.02~0.06			0.9~1.2	
CAC202	65.0~70.0		Rem		0.5~3.0	≤0.8	≤1.0					≤0.5		≤1.0	
C7060	Rem		≤0.5		≤0.02	1.0~1.8	9.0~11.0						0.2~1.0		
C7150	Rem		≤0.5		≤0.02	0.4~1.0	29.0~33.0						0.2~1.0		
C11300	≥99.9														≥0.027
C11600	≥99.9														≥0.085
C18000	Rem					≤0.15	1.8~3.0	0.1~0.8		0.4~0.8					
C18150	Rem					≤0.1		0.5~1.5	0.02~0.2	≤0.1					
C64700	Rem		≤0.5		≤0.09	≤0.1	1.6~2.2			0.4~0.8					



Metal Form	품명	Alloy No.	특성	주요 용도
Slab 90T ~ 240T  Billet Φ200 ~ Φ220	Tough Pitch Copper	C1100	99.9% 이상의 고순도 구리, 뛰어난 전기·열 전도성, 연성 우수	전선, 배선, 전기 부품, PCB, 반도체 제조
	Phosphorus Deoxidized Copper	C1201	내식성이 뛰어나고 가공성이 우수한 황동	배관, 열교환기, 공조 시스템
		C1220	산소 제거로 내식성이 개선된 배관용 구리	냉각 시스템, 수도 배관, 산업용 배관
	Red Brass	C2100	전연성이 뛰어나고 부식 저항성이 우수	동전, 장식품, 악기
		C2200	전성·연성이 좋고 내식성이 우수한 황동	배관, 판재, 전자부품
		C2300	구리 함량이 높은 단동, 우수한 내식성	배관, 피팅, 산업 기계 부품
	Brass	C2600	우수한 가공성과 내식성, 고강도	전기 단자, 커넥터, 장식재
		C2680	강도가 높고 내마모성이 우수한 황동	자동차 부품, 기계 부품, 구조물
		C2700	내식성이 뛰어나며 가공성이 우수	배관, 악기, 전기 장비
		C2800	기계적 강도가 높고 내식성이 좋은 황동	전기 단자, 스위치, 커넥터
		C33000	절삭성이 뛰어난 황동, 우수한 기계 가공성	정밀 부품, 나사류, 가공 부품
		C33200	고강도 황동, 내식성이 우수	밸브, 피팅류, 산업용 장비
	Free-Cutting Brass	CAC202	주조성이 뛰어나고 강도가 높은 황동	주물 부품, 밸브, 펌프 케이싱
	Forging Brass	C3604	우수한 절삭성과 내식성	기계 부품, 선박 가공, 자동차 부품
	Forging Brass	C3771	단조성이 뛰어나고 내식성이 좋은 황동	단조 밸브, 고압 배관 부품
	Arsenical Brass	C44200	내식성이 향상된 황동	배관, 열교환기, 공업용 배관
	Naval Brass	C4430	주석 함유로 해수 및 부식 저항성이 뛰어남	선박 부품, 해양 구조물, 열교환기
	Cupronickel	C7060	구리-니켈 합금으로 뛰어난 내식성과 강도	해수 배관, 열교환기, 조선 산업
		C7150	고강도, 고내식성 해양용 합금	해양 구조물, 전자부품, 군사 장비
	Silver-Bearing Tough Pitch Copper	C11300	전기 전도성이 뛰어나고 내산화성이 우수	전기 전도체, 정류자, 전력 전송 부품
C11600		고온 환경내 전도성이 유지, 은(Ag) 함량으로 내산화성 강화	고온 환경 전도체, 특수 전기 장비	
Chromium-Nickel-Silicon Copper	C18000	고강도, 내마모성이 우수한 합금	전기 접점, 고온 내마모 부품, 금형 부품	
Chromium-Zirconium Copper	C18150	고강도와 내마모성이 뛰어나며 용접 전극에 적합	용접 전극, 자동차 및 항공 부품	
CuNiSi Copper	C64700	니켈-실리콘 함유로 고강도, 내마모성 우수	기계 부품, 스위치 기어, 내마모 부품	



## 공정도



## 품질관리



**ONH 분석기**  
Elemental analysis



**경도 시험기**  
Hardness testing machine



**광학 현미경**  
Optical microscope



**금속성분분석기**  
Spark optical emission spectrometry



**인장압축시험기**  
Tensile compress test machine



**폴리싱머신 & 마운팅**  
Polishing machine & Mounting press

안전보건경영시스템

**kMR**

Certificate No : ROH1056

Certificate of Registration  
**OCCUPATIONAL HEALTH AND SAFETY  
MANAGEMENT SYSTEM**

This is to certify that  
the occupational health and safety manager  
**DS DANSUK CO.,**  
at  
Head Office : 165, Hyeonmyeok-ro, Sihung-si, Gyeongsangnam-do, Korea  
Gunsan 1 Plant: 10, Seohaek-ro, Gunsan-si, Jeon  
Gunsan 2 Plant: 137, Muyeok-ro, Gunsan-si, Jeon  
Pyeongtaek 2 Plant: 11, Poseunggongdansunhwan-ro, Poseung-eup, J  
Pyeongtaek 1 Plant: 216, Pyeongtaekhangman-gil, Poseung-eup, P  
Jecheon Plant: 39, Cheongpungho-ro 24-gil, Geumsong-myeon, .

Has been found to conform to the Occupational Health and Safety  
**KS Q ISO 45001:2018/ISO 4**

This Certificate is valid for the following produ  
*Design, Development and Production of Bio Diesel,  
Pure Lead Ingot, Alloy Lead Ingot, Hydrotalcite, Hydro Mag  
PVC Stabilizer(Single, Complex), Glycerine, Copper and C*

Issue Date : Dec. 16. 2024

Certification Date : Nov. 25. 2022 Valid D

Authorized

Korea Management Registrar  
14ong, 12F, Ace High Tech City #775, Gyeonggi-do  
Yongldeungpo-gu, Seoul, 07299, Korea  
T: 82-2-6309-9001 / F: 82-2-6309-9004

- KMR is accredited by the K
- Mark indicates that KMR is Accredited by the member of the International Accreditation Forum Multilateral Recognition Arrangement
- Initial certification date: No

품질경영시스템

**kMR**

Certificate No : RQM5309

Certificate of Registration  
**QUALITY MANAGEMENT SYSTEM**

This is to certify that  
the quality management system  
**DS DANSUK CO.,**  
at  
Head Office : 165, Hyeonmyeok-ro, Sihung-si, Gyeongsangnam-do, Korea  
Gunsan 1 Plant: 10, Seohaek-ro, Gunsan-si, Jeon  
Gunsan 2 Plant: 137, Muyeok-ro, Gunsan-si, Jeon  
Pyeongtaek 2 Plant: 11, Poseunggongdansunhwan-ro, Poseung-eup, J  
Pyeongtaek 1 Plant: 216, Pyeongtaekhangman-gil, Poseung-eup, P  
Jecheon Plant: 39, Cheongpungho-ro 24-gil, Geumsong-myeon, .

Has been found to conform to the Quality Managen  
**KS Q ISO 9001:2015/ISO 9**

This Certificate is valid for the following produ  
*Design, Development and Production of Bio Diesel,  
Pure Lead Ingot, Alloy Lead Ingot, Hydrotalcite, Hydro Mag  
PVC Stabilizer(Single, Complex), Glycerine, Copper and C*

Issue Date : Dec. 16. 2024

Certification Date : Jan. 2. 2024 Valid D

Authorized

Korea Management Registrar  
14ong, 12F, Ace High Tech City #775, Gyeonggi-do  
Yongldeungpo-gu, Seoul, 07299, Korea  
T: 82-2-6309-9001 / F: 82-2-6309-9004

- KMR is accredited by the K
- Mark indicates that KMR is Accredited by the member of the International Accreditation Forum Multilateral Recognition Arrangement
- Initial certification date: Jan

환경경영시스템

**kMR**

Certificate No : REM1903

Certificate of Registration  
**ENVIRONMENTAL MANAGEMENT SYSTEM**

This is to certify that  
the environmental management system of  
**DS DANSUK CO., LTD.**  
at  
Head Office : 165, Hyeonmyeok-ro, Sihung-si, Gyeonggi, Korea  
Gunsan 1 Plant: 10, Seohaek-ro, Gunsan-si, Jeonbuk, Korea  
Gunsan 2 Plant: 137, Muyeok-ro, Gunsan-si, Jeonbuk, Korea  
Pyeongtaek 2 Plant: 11, Poseunggongdansunhwan-ro, Poseung-eup, Pyeongtaek-si, Gyeonggi, Korea  
Pyeongtaek 1 Plant: 216, Pyeongtaekhangman-gil, Poseung-eup, Pyeongtaek-si, Gyeonggi, Korea  
Jecheon Plant: 39, Cheongpungho-ro 24-gil, Geumsong-myeon, Jecheon-si, Chungbuk, Korea

Has been found to conform to the Environmental Management System Standards:  
**KS I ISO 14001:2015/ISO 14001:2015**

This Certificate is valid for the following product or service ranges:  
*Design, Development and Production of Bio Diesel, Bio-Bunker Fuel,  
Pure Lead Ingot, Alloy Lead Ingot, Hydrotalcite, Hydro Magnesium, Litharge, Red Lead,  
PVC Stabilizer(Single, Complex), Glycerine, Copper and Copper Alloys, Black Mass*

Issue Date : Dec. 16. 2024

Certification Date : Jan. 2. 2024 Valid Date : Jan. 1. 2027

Authorized By *E J Hwang*  
**Eun-Ju Hwang, President**

Korea Management Registrar  
14ong, 12F, Ace High Tech City #775, Gyeonggi-do  
Yongldeungpo-gu, Seoul, 07299, Korea  
T: 82-2-6309-9001 / F: 82-2-6309-9004

- KMR is accredited by the KAI (No. KAI-EC-17)
- Mark indicates that KMR is Accredited by the member of the International Accreditation Forum Multilateral Recognition Arrangement
- Initial certification date: Dec. 27. 2004