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JAPANESE INDUSTRIAL STANDARD

Glossary of terms used in metal matrix composites

JIS H 7006—1991

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In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

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1. Scope

This Japanese Industrial Standard specifies the principal terms and their definitions relating to metal matrix composites which are obtained principally by fiber compounds.

2. Classification

The terms shall be classified as follows:

- (1) Composite materials
- (2) Raw materials
- (3) Forming methods
- (4) Physical properties and evaluation

3. Terms and definitions

The terms and definitions shall be as follows:

The English equivalent is shown for informative reference.

- Remarks: 1. Terms given in () indicate synonyms or abbreviations.
2. Underlined terms are included in this Standard.

(1) Composite materials

No.	Term (Japanese characters)	Reading	Definition	Informative reference	
				English equivalent	
1001	金属基複合材料, (金属系複合材料), (MMC)	KINZOKUKI FUKUGŌ ZAIYŌ, (KINZOKUKEI FUKUGŌ ZAIYŌ), (MMC)	Composite material using metal as the <u>matrix</u> (see 2001).	metal matrix composite	
1002	繊維強化金属, (FRM)	SEN'I KYŌKA KINZOKU, (FRM)	Metal matrix composite (see 1001) reinforced by <u>continuous fibers</u> (see 2003) or <u>short</u> <u>fibers</u> (see 2004).	fiber reinforced metal	
1003	一方向繊維強化金属	ITIHOŌ SEN'I KYŌKA KINZOKU	Metal matrix composite (see 1001) reinforced by <u>unidirectionally arranged fibers</u> .	unidirectionally fiber reinforced metal	
1004	ウイスカ強化金属	UISUKA KYŌKA KINZOKU	Metal matrix composite (see 1001) reinforced by <u>whiskers</u> (see 2013) with high-strength and high-elasticity of ceramics and the like.	whisker reinforced metal	
1005	粒子強化金属, (粒子分散強化金属)	RYŪSI KYŌKA KINZOKU, (RYŪSI BUNSAN KYŌKA KINZOKU)	Metal matrix composite (see 1001) of which dynamic characteristics, etc. are improved by particle reinforcement (see 2002). This does not exclude precipitation hardened alloy, cermet, oxide particle dispersion reinforced alloy (ODS), etc. which are all classified as metal or ceramic materials.	particle reinforced metal	