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MoSi₂ David H. Carter
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AN 131 139 J.-M. Yang
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AND MECHANICAL
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147

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M. Joslin, B. F. Oliver, R.

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Iron aluminide
composites have a cost
advantage over
competing
intermetallic matrix
composites based on
Nickel aluminides or
Titanium aluminides. ...
By varying the powder
ratios, two composites
Fe-32 at% Al with 7
vol% Al_2O_3 and

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Fe-20 at% Al with 20 vol% Al₂O₃ were produced. This was accomplished by hot pressing the powders at 1573 K.

2 - Intermetallic matrix composites based on iron aluminides

Research into the fabrication of intermetallic matrix composites is presented using the Ni₃Al-Al₂O₃ system as

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the baseline. The approach combines reactive sintering, powder injection molding, and hot isostatic compaction to form an aligned fiber composite. The individual components to this process are described with example microstructures ...

Fabrication of intermetallic matrix composites -

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... Raw material
powder manufacture
for the purpose of
intermetallic-matrix
composite (IMCs)
coatings production.

Special Issue

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**"Aluminide-Based
Intermetallic Matrix**

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Properties of Metal
Matrix Composites •

In selecting a composite material, an optimum combination of properties is usually sought, rather than one particular property

• Properties are Determined by Three Factors: 1. The materials used as component phases in the composite 2. The

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geometric shapes of
the constituents and

Volume 273 Mrs **METAL MATRIX COMPOSITES II**

Intermetallic NiAl-
based composites with
dramatically higher
energy absorption
capability and damage
tolerance have been
demonstrated. The
approach consisted of
incorporating
continuous tubular ...

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Page 15/30

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Composites - ResearchGate

Intermetallic Matrix Composites: Properties and Applications is a comprehensive guide that studies the types and properties of intermetallic matrix composites, including their processing techniques, characterization and the various testing methods associated with these composites. In addition, it presents

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modeling techniques,
their strengthening
mechanisms and the
important area of
failure and ...

Intermetallic Matrix Composites - 1st Edition

Generally, the
reinforcements in
discontinuously
reinforced metallic- or
intermetallic-matrix in-
situ composites are on
the order of 0.5-5 μm ,
and volume fractions

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range from 0-50 vol.%.
The potential
advantages of in-situ
composites as
compared to
discontinuous metal-
ceramic composites
produced by ex-situ
methods include:

The Mechanical Properties of In-Situ Composites

The short fibre
reinforced composite
(containing 10% and
20% volume fibre)

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reacted during infiltration with an aluminium melt to form a single phase intermetallic. Using an aluminium-copper melt the intermetallic formation was inhibited and a multi-phase composite was obtained.

Fabrication of fibre reinforced nickel aluminide matrix ...

The In Situ composites with microstructurally

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different types of intermetallic matrix such as nearly γ (TiAl) (composite A), multiphase with high amount of lamellar α_2 (Ti₃Al) + γ (TiAl) regions (composite B) and fully lamellar α_2 + γ (composite C) were prepared by centrifugal casting and consecutive heat treatments of Ti-44.5Al-8Nb-0 ...

Development and

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**Properties of Cast
TiAl Matrix In Situ ...**

An $Y_2O_3/NiAl$ composite with a directionally recrystallized structure of a NiAl-based matrix hardened by 2.5 vol % Y_2O_3 particles can be recommended for operation at temperatures of 1400–1500°C ((0.8–0.9) T_m of matrix), which are higher by 100–400°C than not only T_{op} but

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also T m of Ni
Superalloys.

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**Composite materials
with an intermetallic
matrix based on ...**

K. T. Venkateswara
Rao, G. R. Odette, and
R. O. Ritchie, "On the
Contrasting Role of
Ductile-Phase
Reinforcements in the
Fracture Toughness
and Fatigue-Crack
Propagation Resistance
of TiNb/g-TiAl
Intermetallic-Matrix

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Composites," Acta
Metallurgica et
Materialia, vol. 40(2),
1992, pp. 353-361.

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Gamma-Based TiAl Intermetallics

This study was conducted on titanium diboride (TiB₂) reinforced Al metal matrix composites (MMCs) with improved properties using a TiB₂ and aluminum (Al) 1050 alloy. Al composites reinforced

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with fine TiB₂ at volume ratios of more than 60% were successfully fabricated via the liquid pressing infiltration (LPI) process, which can be used to apply gas pressure at a high temperature.

Fabrication of TiB₂-Al1050 Composites with Improved ...

In situ formation of second phase particles

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in the intermetallic matrix has a lot of advantages such as the existence of strong chemical bonding between particles and the matrix and the lack of particles agglomeration, which can effectively increase the homogeneity of the final product [12-14]. There are many ways to produce $\text{Fe}_3\text{Al}/\text{Al}_2\text{O}_3$...

Fabrication of Bulk
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(Fe,Cr)Al/AlO

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... composite's matrix strength, or to the residual stress created by the mismatch in coefficient of thermal expansion (CTE)

between fiber and matrix. One possibility, which we explore here, stems from the recent realization that the fibers in all metal and intermetallic matrix composites are in a

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residual state

Composites li

**AN ULTIMATE
TENSILE STRENGTH
DEPENDENCE ON
PROCESSING FOR ...**

2)/Mg composites Bo
Li^{1,2}, Wei Long^{1,2} and
Xiaoping Zhou^{1,2}

Abstract ... show that
the volume of Mg₃Sb₂
compounds can be
significantly refined
and the distribution
uniformity of Mg₃Sb₂
... and research
progress of the

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Compounds/ ceramic
matrix composites,
China Ceram Ind2013;
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20(6): 26-31. 7. Gupta
R, Chaudhari GP and
Daniel ...

ADVANCED COMPOSITES

Laminated Composites
D.R. BLOYER, K.T.
VENKATESWARA RAO,
and R.O. RITCHIE A
study has been made
of the fatigue-crack
propagation properties

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of a series of laminated Nb-reinforced Nb₃Al intermetallic-matrix composites with varying microstructural scale but nominally identical reinforcement volume fraction (20 pct Nb).

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