

**Slags, steelmaking, vanadium**  
**EINECS No. 273-734-4; CAS No. 69012-34-6**

The purpose of the Pre-SIEF is for REACH Pre-Registrants to agree upon 'sameness' of substance. Pre-registrants that agree upon the sameness of substance will then pass into the Substance Information Exchange Forum (SIEF) for that substance, where the data-sharing discussion begins and is coordinated by the SIEF Facilitator.

Pre-Registrants that consider they do not have the same substance will be grouped together by the Pre-SIEF Facilitator for further discussion and potential entry into sub-SIEFs or another SIEF. All pre-registrants for **slags, steelmaking, vanadium** will receive an e-mail with a link to participate in the 'Substance Sameness' discussion. Your response to that survey will be your participation in the Pre-SIEF 'sameness' discussion.

**Composition – SUB-SIEF 1**

**Pre-Registrants that can agree** that they have the same substance will pass into the Substance Information Exchange Forum (SUB-SIEF 1) for this substance. **The typical composition for this substance can be checked below.**

**Table 1: Information for Sameness discussion – SUB-SIEF 1**

<b>Substance</b>	<b>Slags, steelmaking, vanadium</b>
Synonyms	V slag
Description	By-product from open-hearth steelmaking. Consists of oxides of calcium, iron, silicon and vanadium.
CAS Number	69012-34-6
EINECS Number	273-734-4
Note	V slag composition depends on the raw materials and the production process. Considered as a UVCB substance (Unknown or variable composition) under REACH.
Parameter / Component	Mass (%)
Vanadium	ca. 20 - 25
Nickel	≤ 0.6
Chromium	≤ 0.2
Arsenic	≤ 0.02
Cobalt	≤ 0.02
Lead	≤ 0.02
Cadmium	≤ 0.001
Sodium	ca. 0 - 30
Iron	ca. 0 - 10
Sulphur	ca. 0 – 5
Calcium	ca. 0 – 3
Silicon	ca. 0 – 3
Aluminium	ca. 0 – 3
Manganese	ca. 0 - 3
Magnesium	ca. 0 - 3
Molybdenum	≤ 0.3
Zinc	≤ 0.1
Copper	≤ 0.02
Tungsten	≤ 0.01
Titanium	≤ 0.001

## Composition – SUB-SIEF 2

**Pre-Registrants that can agree** that they have the same substance will pass into the Substance Information Exchange Forum (SUB-SIEF 2) for this substance. **The typical composition for this substance can be checked below.**

**Table 2: Information for Sameness discussion – SUB-SIEF 2**

Substance	Slags, steelmaking, vanadium
Synonyms	V slag
Description	By-product from open-hearth steelmaking. Consists of oxides of calcium, iron, silicon and vanadium.
CAS Number	69012-34-6
EINECS Number	273-734-4
Note	V slag composition depends on the raw materials and the production process. Considered as a UVCB substance (Unknown or variable composition) under REACh.
Parameter / Component	Mass (%)
Vanadium (main form: FeV <sub>2</sub> O <sub>4</sub> )	ca. 11 – 15
Chromium (III)	≤ 4
Nickel	≤ 0.001
Arsenic	≤ 0.001
Cobalt	≤ 0.001
Lead	≤ 0.001
Cadmium	≤ 0.001
Iron	ca. 0 - 27
Calcium	ca. 0 - 8
Silicon	ca. 0 - 8
Titanium	ca. 0 - 6
Aluminium	ca. 0 - 5
Manganese	ca. 0 - 4
Magnesium	ca. 0 - 4
Phosphorous	ca. 0 - 0.01
Molybdenum	≤ 0.001
Zinc	≤ 0.001
Copper	≤ 0.001
Tungsten	≤ 0.001

The REACH Vanadium Consortium, Auer von Welsbach Straße 1, A-9330 Althofen, Austria, [www.vanadiumconsortium.com](http://www.vanadiumconsortium.com) is a voluntary industry scheme that invites all organisations and individuals involved in the vanadium business, which have a current or future interest in the European market, to join the consortium.

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