



Alkalis & Mineral Products
 Mineral Chemicals Department
 Production Line Sulphur Derivatives

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SODIUM SULPHIDE FLAKES 60 % Na₂S

	<u>Specification</u>		<u>Typical Analysis</u>		<u>Method of analysis</u>
Alcalimetric titration in Na ₂ S	61 ± 2	%	60 - 62	%	WI : Na ₂ S - 3
Iodometric titration in Na ₂ S	62 ± 2	%	60 - 62	%	WI : Na ₂ S - 3
NaHS			0 - 4	%	WI : Na ₂ S - 4
Na ₂ SO ₃			0,1 - 0,5	%	WI : Na ₂ S - 5
Na ₂ S ₂ O ₃			0 - 2	%	WI : Na ₂ S - 6
Na ₂ CO ₃			0,4 - 1,2	%	WI : Na ₂ S - 5
Fe	max. 10	ppm	2 - 6	ppm	WI : Na ₂ S - 9
Polysulphides	max. 0,4	%	0 - 0,2	%	WI : Na ₂ S - 7
As			< 1	ppm	WI : Na ₂ S - 10
Cd			< 1	ppm	WI : Na ₂ S - 9
Cr			< 1	ppm	WI : Na ₂ S - 9
Ni			< 5	ppm	WI : Na ₂ S - 9
Pb			< 1	ppm	WI : Na ₂ S - 9
Zn			< 1	ppm	WI : Na ₂ S - 9

WI : Na₂S - 3 :

Alcalimetric and iodometric titrations.

WI : Na₂S - 4 :

Calculation, based on both iodometric and alcalimetric titrations.

WI : Na₂S - 5 :

Iodometric titration, followed by acid-base titration.



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WI : Na₂S - 6 :

Precipitation of Na₂S with ZnCO₃ - Iodometric titration of Na₂SO₃ and Na₂S₂O₃.

WI : Na₂S - 7 :

Transformation of polysulphides into thiosulphate which is determined by iodometric titration after elimination of the sulphides.

WI : Na₂S - 9 :

Inductively Coupled Plasma

WI : Na₂S - 10 :

Atomic Absorption Spectrometry after hydride formation
