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Figure 1 displays the chemical composition of the studied steel. The composition is shown as a pie chart at the top, indicating the weight percentages of the major elements: Fe (63.8%), Cr (25%), Ni (6%), Mn (2%), and C (3.2%). Below the pie chart, a horizontal bar chart illustrates the concentration ranges for various elements, measured in weight percent (wt%) on a logarithmic scale from 0.01% to 100%.

Element	Concentration Range (wt%)
C	≤ 0.03
Si	≤ 1
Mn	≤ 2
P	≤ 0.03
S	≤ 0.03
Cr	24–26
Mo	1.5–2.5
Ni	5.5–6.5
N	0.1–0.2

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