

Predictions and Intervals Strength of Welds

Full Model (X1, X2, X1X2)

Energy	Force	Pred	Confidence	Prediction
20	5	40.5	36.14 to 44.86	30.76 to 50.24
30	5	49.5	45.14 to 53.86	39.76 to 59.24
20	9	28.5	24.14 to 32.86	18.76 to 38.24
30	9	69.5	65.14 to 73.86	59.76 to 79.24

Reduced Model (X1, X1X2)

Energy	Force	Pred	Confidence	Prediction
20	5	42.5	38.35 to 46.65	32.05 to 52.95
30	5	51.5	47.35 to 55.65	41.05 to 61.95
20	9	26.5	22.35 to 30.65	16.05 to 36.95
30	9	67.5	63.35 to 71.65	57.05 to 77.95